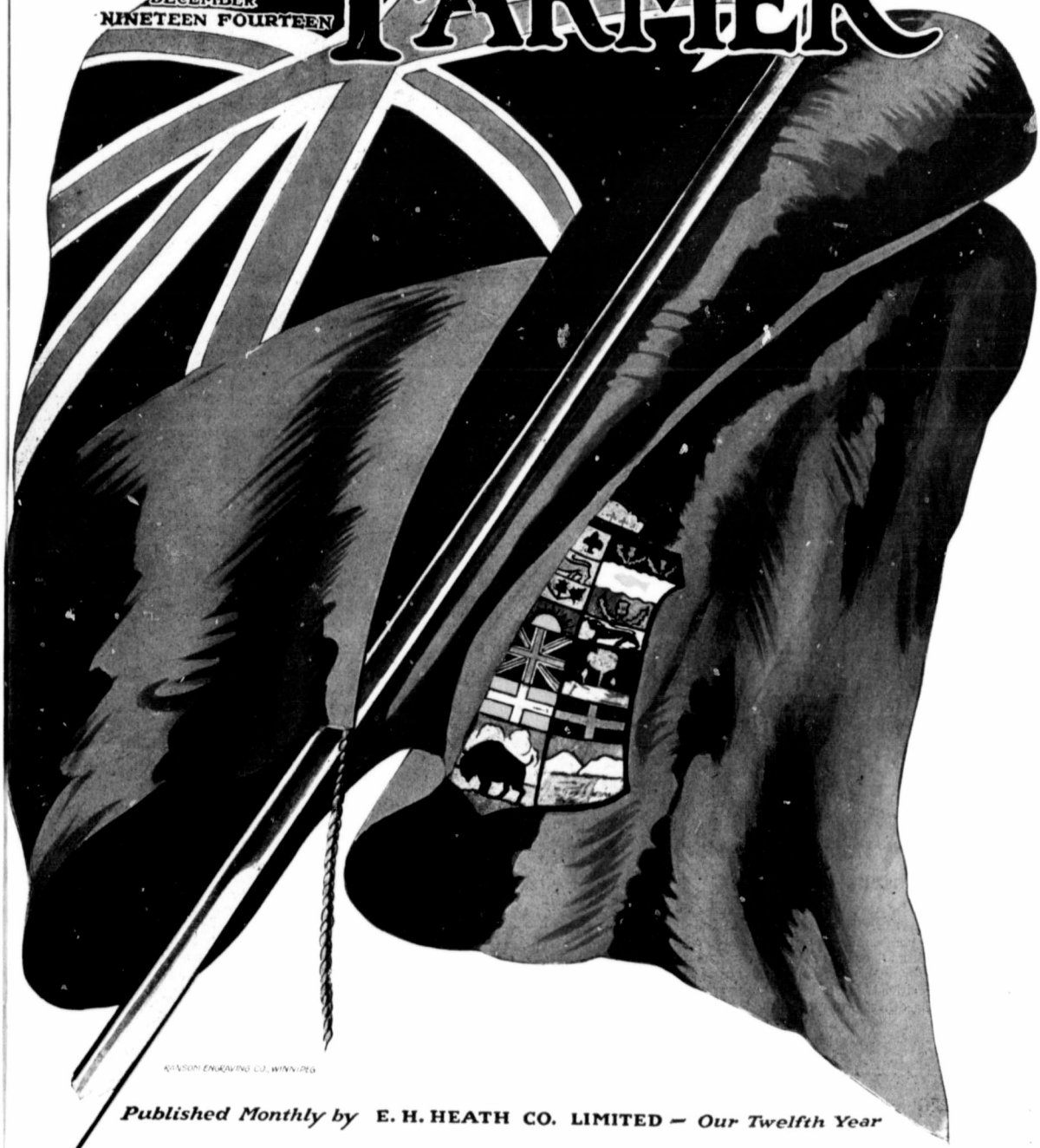


The CANADIAN THRESHINGMAN AND FARMER

WINNIPEG CANADA

DECEMBER
NINETEEN FOURTEEN

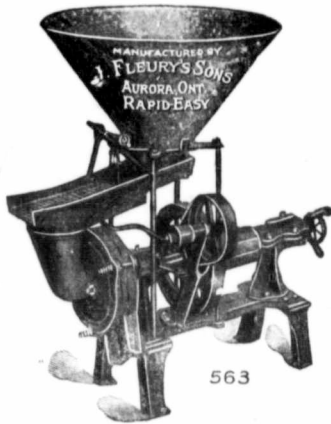


ARTIST ENGRAVING CO. WINNIPEG

Published Monthly by E. H. HEATH CO. LIMITED — *Our Twelfth Year*

Your "Luck" in Live Stock

Hangs by the Condition and Cost of the Feed



No. 3—Rapid Easy Grinder

Is only one of many sizes. They are built to meet all requirements with 8, 10, 11, 12 or 13-inch plates operated by rod or belt drive.

For quality of work, ease of operation, capacity and lasting qualities, they are unsurpassed. Baggers can be supplied to fit all these mills.

With a FLEURY GRINDER

The Feeding Value of Your Grain will be Increased 20%

You will get More Grain and Higher Grade if you Clean with a FOSSTON AUTOMATIC

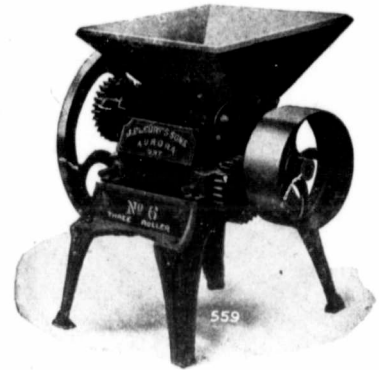


Fosston Grain Cleaner

Do not give the elevator a part of your crop for nothing. Clean it before you take it into market and use the screenings.

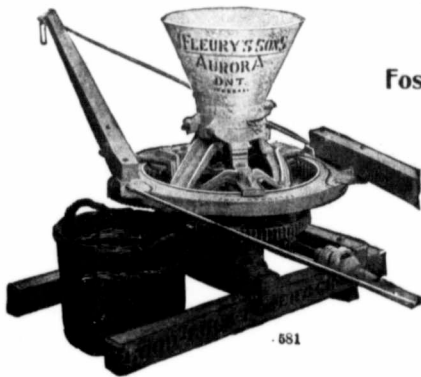
The American Fosston Automatic will clean and grade wheat, oats, barley, flax, and all kinds of grain. It is equipped with a patented feed device. The operator can reach and adjust it without stopping the machine. The flow of grain on the sieves is evenly distributed, enabling the machine to work its full capacity. Good work has made this mill famous, the leader of all grain cleaners.

A postcard will bring you our "Farmer's Catalogue." The most complete of its kind ever published.



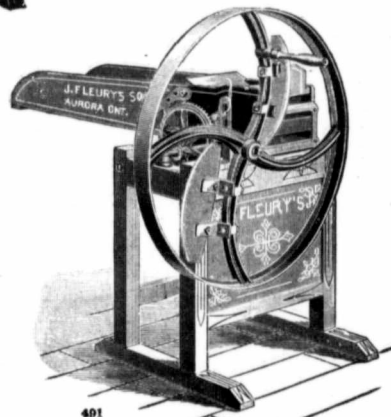
No. 6—Roller Crusher

Heavy, strong and simple in construction. Equipped with corrugated rollers operated on the same principle as the rollers in a modern grist mill. They will crush an immense amount of grain with very little power. Built with two or three rollers. For very fine work the three roll machine is preferable.



Good Luck Horse Power with Grinder Attachment

This is one of the most profitable and convenient articles for farm use. A Horse Power and Grinder combined. It can be used to grind all kinds of small grain with its own grinder attachment, or the hopper and grinder head can be easily removed and the horse power used for operating other farm machines.



No. 3—Straw Cutter

We have a straw cutter to suit every possible requirement from the small 8-inch feed Hand Lever Cutter to the large Ensilage Machine, cutting and elevating from seven to fifteen tons of corn per hour. Straw cutters operated by hand, rod, or belt drive, with 8, 10, 12 and 14-inch feed. Send for catalogue describing this line.

John Deere Plow Company Limited

WINNIPEG

REGINA

SASKATOON

CALGARY

EDMONTON

LETHBRIDGE

The Russell Wind Stacker Co.

IN 1914 SOLD THE

GEARLESS RUSSELL

With the Sharpe Grain Saving Feature

IN

17

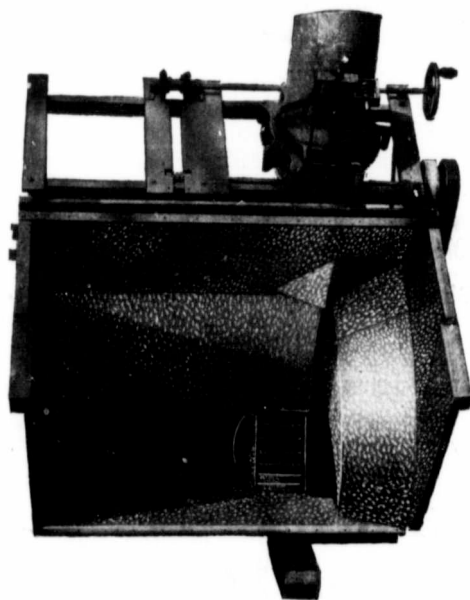
STATES

AND THEY HAVE BEEN ATTACHED TO

23

DIFFERENT MAKES OF SEPARATORS

The Threshermen who have used the SHARPE GRAIN-SAVING FEATURE say IT SAVES THE GRAIN THE SEPARATOR WASTES.



The Farmers are insisting upon having their grain threshed with a separator that has a SHARPE GRAIN-SAVING FEATURE embodied in the stacker, because IT SAVES THE GRAIN.

Showing Grain Saver in the Hopper

Put the Grain in the Sack instead of in the Stack and Conserve the Nation's Bread

WRITE

The RUSSELL WIND STACKER CO.

FOR THE PROOF

INDIANAPOLIS

INDIANA

U.S.A.

How To Make Money Threshing

The Test of Money Making qualities is easily determined.

More easily is it determined in Threshing Machinery than in many other lines.

Ask the owner of a RED RIVER SPECIAL and he will tell you that it makes him more money than any other thresher he ever owned.

The reasons are plain. His RED RIVER SPECIAL outfit runs more continuously than any other.

It does not break down and keep him out of days and days of use.

It threshes when conditions are such that others cannot run.

It is in demand by farmers who want all their grain saved.

It saves more grain out of the same amount of straw.

It wastes no time by bothering with weak contraptions or bad conditions like others do.

It threshes more grain.

Its builders give better service to buyers in starting them off right, and giving the outfit necessary attention afterwards.

If parts wear out, they can be more easily obtained than from others, because large and complete stocks are carried at all implement-distributing centers.

Proof that Buyers of Red River Specials Thrive and Prosper

Go to a Nichols-Shepard Branch House or to the Factory and you see no great big stock of second hand machines taken from customers who could not make them pay.

Go to any other Branch House or Factory and you will see them loaded up with old machinery.

You want machinery that will prove profitable to you.

Buy a Red River Special Outfit and Make Money

REMEMBER the RED RIVER SPECIAL is the only Thresher which **BEATS THE GRAIN OUT OF THE STRAW.**

NICHOLS & SHEPARD COMPANY, Battle Creek, Michigan

In continuous business since 1848

Builders of the Red River Special Threshers, Traction Steam Engines, Oil-Gas Tractors, Stackers, Feeders, etc.

Branch Houses with Repairs and Stocks of Machinery at WINNIPEG, MAN., and REGINA, SASK.

**Mackenzie, Brown,
Thom, McMorran,
MacDonald, Bastedo &
Jackson**

Barristers, Solicitors, &c.
Regina, Sask., Canada

Norman MacKenzie, K.C.
Hon. George W. Brown
Douglas J. Thom
T. Sydney McMorran
Hector V. MacDonald, K.C.
Frank L. Bastedo, LL. B.
Edwin Jackson

General Solicitors in Canada for the National
Thresher Manufacturers' Association of America
General Solicitors in Canada for the American
Collectors' Association
General Solicitors in Canada for eight Thresher
and Implement Companies, and in addition for
Six Thresher and Implement Companies in
Saskatchewan.

**Pace, Harrison
& Millar, Ltd.**

Winnipeg
INSURANCE

LIVE STOCK
Fire
Accident
Sickness
Automobile
Plate Glass
Liability
Bonds
Tornado

WRITE FOR AGENCY

Pace, Harrison & Millar
Ltd.
General Agents, Winnipeg

**The Right
Lads for
Farm Life**

are being sent out by the Bisleigh Farm
and Shaftesbury Homes in the county
of Surrey, England, and the Twickenham
Home, Middlesex.

**Their Majesties the King
and Queen**

are patrons and the Earl of Jersey,
G.C.M.G., is president of the Society of
which the above named homes are units
specially equipped for the training of lads
for farm life.

The work of the Society is an imperial
one and for many years it has been
supplying lads of excellent character and
physique to the farms of the Dominion.
About 1,600 are now settled at various
points in Canada.

Mr. H. G. Copeland, the Secretary, who
has recently been on a tour through
Canada, will be glad to receive donations
towards the Society's work at the head-
quarters, 164 Shaftesbury Avenue, London,
England, or they may be sent to the editor
of this paper.

**You cannot interest
yourself in a more
worthy institution.**

Stephens'
WA-KO-VER
STAIN
For Floors and Interiors
Where LASTING
Qualities Count

**Christmas Cheer and
New Year Hopes**

WE are nearing another milestone and as
we are about to pass it, would like to
shout a word of cheer to everybody along
the track.

The year 1914 may not have been one of the
brightest to you, dear reader; its story may be a
very sombre one so far as you are concerned but
buck up, there's a brighter one ahead.

We ourselves have had our little set backs, too,
but we have never been downhearted. We have
some splendid memory flashes of unexpected good
things and so have you if you will only think.

A corner man in our old home-town nigger
troop had a twenty-eight verse ditty which he
used to reel off with a bellowing chorus to each
verse. We have not space for the music nor even
for the twenty-eight verses but one of them provides
the burden of the lot. It runs:

*"There is little we lack and we're all that we need
In finery, fodder and feed;
We're as much as some folks
And some more in our hat,
So we ought to be thankful for that."
Chorus: Thankful for that, etc.*

For what we have already received we are truly
thankful and in the approaching joyous season of
Christmas we are ready to give and to take all we
can in good cheer and uplifting counsel and service.

In wishing every reader of the "Canadian Thresh-
erman and Farmer" a very happy Christmas, and
expressing the hope that the New Year will bring
the bumper crop of our lives in good things, we
invite special notice of what we are doing to en-
courage the circulation of this wonderful dollar's
worth of good reading and information that cannot
be picked up elsewhere for ten times the money.

You will find it all set forth on page 45 of the
present issue. We advertised these marvellous barg-
ains in educational literature in a recent issue and
almost as soon as it had been mailed, letters began
to reach us in increasing numbers by every mail
asking for one or other of the lines we offered.

Since supplying these we have had many
flattering letters of appreciation and we can say
most positively that you could not invest to better
purpose the small sum represented in the most
expensive of these items.

Again: All joy to you at Christmas and the
best of health and prosperity in 1915.

E. H. Heath Co., Ltd.

STOVEL CO. LTD., WINNIPEG

**PRINTERS, ENGRAVERS, LITHOGRAPHERS,
EMBOSSERS, BOOKBINDERS, MAP MAKERS, Etc.**

"MADE IN CANADA"



**"Folks say I'm 'sad,
I'm really glad,"
Sad Iron cried
with glee.
"Although I'm flat,
I'm bright at that,
Old Dutch has
polished me."**

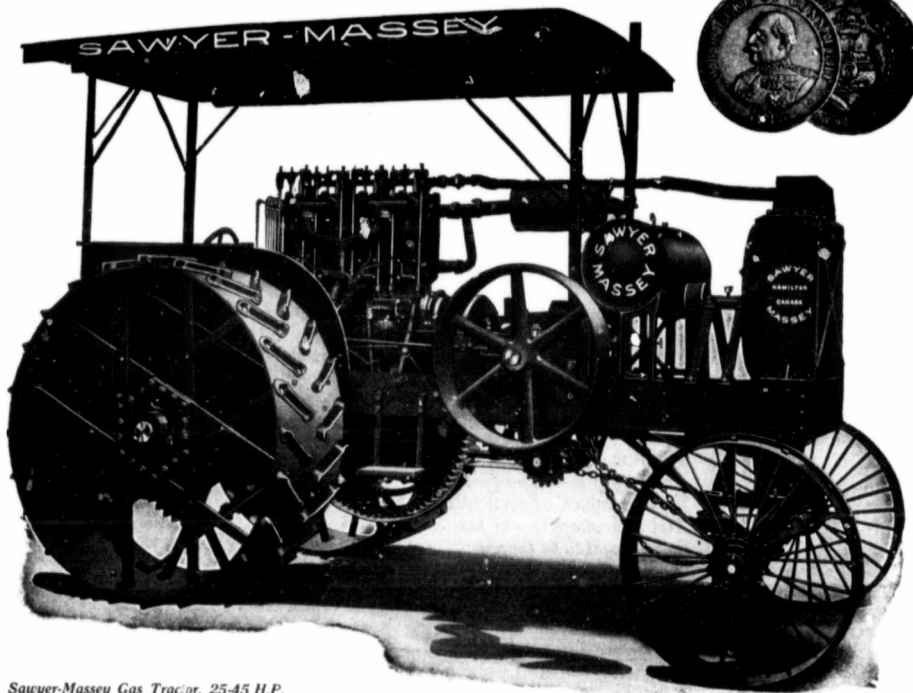


On written request we will mail—free of
charge—a booklet, "The Spickanspan Folks,"
containing six beautiful colored prints espe-
cially designed for young folks.
"Old Dutch," 46 Macaulay Avenue,
Toronto, Canada



THE PREMIER COMPANY

THE PREMIER GOODS



Sawyer-Massey Gas Tractor, 25-45 H.P.

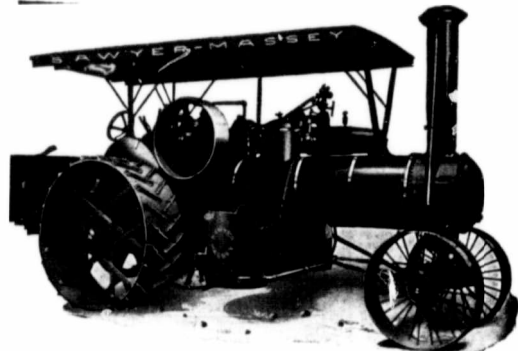
CANADA'S WAR PROFIT

The war in Europe gives Canada its great opportunity. Little grain is being raised there. The world is eager to buy grain, and at high prices. Canada can supply much of this grain if she will, and the more she supplies the greater will be her profit.

There are many proofs of this. After the American Civil War prices were high, and many Canadian farmers who seized their opportunity made fortunes. In 1879 the crops of Europe were ruined by frosts, and the high prices for several years made fortunes for many men! In 1893 the wheat crop in India failed, prices rose, and American and Canadian farmers made great profits!

Large crops cannot be raised by hand. They require efficient "big-production" machinery. A good, reliable tractor will help you raise a bumper crop, and make the large profits you should have this year. Seize your opportunity! Investigate now!

Our large illustrated catalogue will be sent on request.



SAWYER-MASSEY COMPANY, Limited

Builders of Steam and Gas Traction Engines, Threshers and Road-making Machinery

Head Office and Factory HAMILTON, CANADA
Branch Offices and Warehouses: WINNIPEG, Manitoba; REGINA, Saskatchewan;
CALGARY, Alberta; Agency, BUENOS AIRES, Argentina

SAWYER-MASSEY

You saw this advertisement in this magazine. Don't forget to say so when writing.



Vol. XIX.

WINNIPEG, CANADA, DECEMBER, 1914.

No. 12.

WHILE we are in the throes of one of the biggest surgical operations which the world has ever been called upon to pass through, it is pleasant on the eve of Christmas to turn from its awful handiwork of hate and destruction to something of love and construction that has been quietly operating in our midst for over half a century.

This is the story of how the bodies and souls of very many thousands of boys and girls who would probably have gone to the underworld have been saved to society, not only to the best of its rank and file but in numerous instances to become its brightest ornaments. It reads with all the piquancy of a romance, but its plain unvarnished record of actual achievement is a contribution to our national history that has never been outclassed by anything our empire story yet knows of in the training of its men and women for the battlefield of life.

It shall be the theme of our Christmas story; it briefly relates the rise and progress of an entire nameless effort on the part of one humble man but which subsequently became known as the "National Refuges for Homeless and Destitute Children," having for its sponsor the good Earl of Shaftesbury and claiming the constant and whole-hearted services of a galaxy of the British aristocracy, and of England's leading business and professional men.

Canada owes a debt to this one institution which it can never repay—in dollars at least. Not far short of a thousand of the young

Real Empire Builders
 From the Story of the "National Refuges for Homeless and Destitute Children."

men who have been educated and trained—most of them specially for farm work—at one or other of the homes of the "National

temperamentally fit for Canadian life. The consequence is that spread over a period of years, the manhood of this country has re-

advisedly because every boy is kept in sight for at least two years after leaving the home and safeguarded from exploitation at the hands of unscrupulous employers as far as that can be secured. He is given all that a young man starting out on his own wing would reasonably require in clothing, equipment, etc., and usually carries in his cabin trunk a nice little collection of books and other souvenirs—tokens of the love and good wishes of his old chums, and of those who have had him under their care.

The human touch is the distinguishing mark of this great training home, and were it possible for our readers to look into the faces of those men and women who form the great unpaid executive and committees of management, what we mean by "the human touch" would be more easily comprehended than described.

The great work had its inception in 1843 as an evening ragged school in the slums of Seven Dials, London, by William Williams, a poorly paid lawyer's clerk, who had a heart far bigger than his little hunch-backed body and took pity on a few outcasts he found seeking shelter from the wind and rain of a fierce April night.

He was discovered and helped by the late Earl of Shaftesbury, and a permanent home was established in 1849 with five boys and four girls. At the date of writing, over 900 boys and 300 girls are under care and training, divided over twelve homes and two ships—the frigate "Arethusa" and brig "Chichester," (the latter used for



Training for the best profession on earth. Young farmers in the making.

Refuges" have been sent out to this country. Those who picked and sent these lads might not enjoy the doubtful distinction of being accounted great politicians, but they certainly are humanitarians and possessed of an abundance of commonsense and paternal foresight.

These young emigrants are not given tickets and packed off to sink or swim. In not a single instance has a lad been sent out unless in the judgment of his kindly discriminating foster-parents he was considered physically and

ceived recruits from this one source alone who would have done honor to the best families and public schools of the old motherland.

The writer (who has followed with intense interest the operations of this institution for something like 25 years) is not aware of a single disappointment in the shape of an "undesirable" having started out in Canada who received his training and came out under the protection of the "National Refuges."

We use the word "protection"

cruising with the advanced seamen pupils of the big training ship).

Two of the homes are farm schools at Bisley, and it is from these that the bulk of the lads are drafted to Canada. Every pupil

Canadian proteges are by no means forgetful of what they owe to it. One of them recently left a legacy of \$1,000 to the funds of the institution, and the old boys and girls as they are able to afford it, voluntarily contribute

giving on the part of the "authorities." As to the character and fitness of the raw material, it may be said with no less truth than David Lloyd George recently said of those "scraps of paper" known as Bills of Exchange; "they are backed by the credit of the whole British Empire." Further, this material may not fairly or appropriately be called "raw" for as a matter of fact every boy that is drafted into the country has already received a decent apprenticeship in farming or in some craft he can follow up to advantage in his new home.

The illustrations in these pages—from actual photographs taken of the boys at work in one or other of the training homes—give point to what has been said. The writer for many years had the privilege of visiting these homes and training grounds; of following the career of quite a number of the lads after they have gone out into the world; of recommending them to their first employer and in every case with the

commission and doing so with infinite credit to themselves and those to whom they owe the best that is in their lives.

Last June the great annual fete of the "Arethusa" training ship took place when the prizes for the year were given to the winners by H.S.H. Princess Louise of Battenberg. She was accompanied by Admiral Prince Louis (at that time First Sea Lord of the Admiralty) who inspected and addressed the young sailors—over two hundred of them, bright looking, clean limbed whelps of the British Lion.

Occasion was taken at the same time by Commander E. A. Martin, R.N.—Captain-Superintendent of the ship, to include some interesting statistics in his annual report which he read in the hearing of their Serene Highnesses. Since the ship started on its great mission of making men, she had sent over 2,000 men into the Royal Navy—enough "hands" to completely man four large cruisers or two of our largest battle ships. During the same period, 6,270 had been fitted out and handed over to the mercantile marine—an army of perfectly drilled seamen, every man jack of them bearing an excellent character. Here was ready to hand sufficient men to form the crews of at least a dozen of our biggest ocean liners, the floating palaces that make their weekly trips across the Atlantic and which are among the wonders of the age we live in.

From another part of the Captain-Superintendent's report we find that the boys are not merely crammed with scraps of sea-faring information such as how to splice a rope, box the compass and take a reef in the main top-gallant sail. They are taken through a course of ambulance work and not allowed to ease off



Getting their fill of Fruits and Vegetables.

receives an excellent education, and the moral character of the boys and girls receives the most careful and constant supervision by the superintendent and matrons of the homes. These are in every case appointed because of the fact that they are known to be men and women of strong personality, of the very highest character, with special fitness for the work they are undertaking.

Boys Only

Boys only are sent to Canada, where the institution has resident agents at various points to safeguard the interests of the lads from the moment they arrive until they are beyond all doubt in circumstances which give them every chance of success if it is within themselves to secure it.

If any reader of the "Canadian Thresherman and Farmer" would wish to have some idea of what this element is doing and is still more likely to accomplish in the upbuilding of Canada—particularly the great open field of Western Canada—the Commissioner for Immigration, J. Bruce Walker, will no doubt give them some live particulars. Mr. Walker is fully alive to the splendid class of young men of whom we are speaking and has followed the career of several who have met with conspicuous success in their independent farming operations.

The Results

His Majesty the King is patron of the "National Refuges," while the Earl and Countess of Jersey are its working "heads," and a large committee of leading professional and business men manage its affairs under the most rigid business oversight. Altogether some 21,000 children have been saved from "going down" and trained by this one institution—of which, by the way, very little has ever been heard in Canada. Many of these have risen to distinguished positions, and its

something like \$1,500 annually to its funds.

This institution is maintained entirely by voluntary contributions, and it is interesting to note that its first year's income was



Gardening technically taught—Shaftesbury School, Bisley.

\$500. To-day it is something like \$150,000. All the property is the freehold of the society, and it does not owe a dollar at this date.

During the past summer Mr. Henry G. Copeland, the secretary of the homes made an extended tour of Canada for the special purpose of ascertaining at first hand actual conditions of life; what is actually necessary to the success of their work in this direction; how he and his associates may still further help the lads and incidentally one of the very best outworks of Canada's immigration scheme.

What would Canada be to-day but for the "imported" foundation stock that has made the biggest factor in her working capital, that is winning first honors all over the world against all odds and making history unprecedented in the story of the nations? Would that the same care and supervision could be exercised in "regulating" the human element that is bestowed upon the live stock units that are allowed to enter the country.

Here is one channel that need never occasion the slightest mis-

most gratifying results. But for the very natural repugnance to any idea of courting publicity, quite a few pages of this magazine might be filled with outstanding cases of these young men who have homesteaded or have gone into business in the West and have moved on to more than comfortable circumstances.

It is of special interest at the present crisis in our history to know that practically all through its career as an institution, the flower of our fighting line has been largely recruited from this same fine material. There isn't a regiment in the British Army that does not now contain—that has not always numbered in its ranks—some representative Bisley or "Arethusa" old boys, or "picked specimens" from one or other of the ten boys' schools the institution maintains. And if a careful inquiry were made as to the general character and ability of these young militants, it would invariably be found that they had so distinguished themselves that they are now wearing the coveted stripes of the non-commissioned officer, in some cases holding a



A Twickenham Hero. He has made good in what was expected from his youthful determination and industry.

until they have been brought to a state of efficiency in rendering first aid to the injured. The Captain, like his boys, has a quick and sympathetically kind eye to

the humorous element in his life's work and does not fail to flash a little touch of it into the general sobriety of his report, as when he tells of a pupil in the First Aid class who was asked if he could bandage a broken leg. "No, sir," said the lad: "I haven't got as far as that yet." "How far have you got?" "I've only got as far as artificial perspiration!"

In paying a tribute to the remarkably good conduct of the boys, this kindly and intensely human captain relates that "the last punishment of any sort, and that a minor one, took place on the 1st of May when some boy made an ass of himself. There has been no trouble or slack case since then. But our boys are not milksops. There is always a fair average of black eyes about, and that is quite right and as it should be!"

Believing that "an idle brain is the devil's workshop" and in the fatality attaching to "idle hands," these young scions of the Empire are not permitted to taste the bitterness of habitual idleness. They are kept at it. "The boys have done their best," continues this report, "for within the last four months in addition to painting the whole ship—and that means many miles of paint—they have been working up for three great inspections. The boys have had much of it to do at night because we cannot neglect their schooling. Their time lately reminds me of the letter the newly-entered marine wrote: "Dear father: I am all well and hearty; but when I'm not on guard I'm in a working party!"

A report from the Captain-Superintendent of the "Arethusa" even on a subject of far more serious import than the year's "log" of the boys under his care



Flinding fr: himself what is meant by Humus and the art of making a good seed bed.

could not come off the typewriter without some such pleasant little yarrs which are thoroughly typical of the British sailor-man.

"Hard as nails afloat," we back him against all other "class" comparisons for downright good-heartedness. He is the personification of chivalry, as soft as putty when he stumbles on anyone, friend or foe, under the iron heel of calamity. But he hates a molly-coddle as he loathes any creeping thing and therefore he makes it his business to see that there are no shirkers or "mama's little darlings" in any crowd of associates.

That men are being made under the most favorable conditions for the development of a complete manhood one has only to stand for five minutes and watch a group at some department of farm or garden work, in the carpenter's shop, shoemaker's or tailor's bench. The faces are all eagerness because they are intensely interested. No boy is driven into any occupation. He has his choice and therefore if he decides to be a horticulturist or a farmer, you may take it that if



The theory and practice of Carpentry—Farm School, Blaisy.

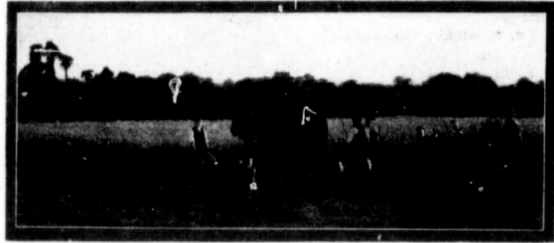
that boy completes his course and hires out to help any farmer or market gardener he will be found a success in every way. He will be willing, because he likes his job; he will be found industrious because it is bred in the bone; he will be found intelligent because he has been trained by a man of long experience in watching things grow—whether they have been boys or beet roots.

Without the remotest reflection upon any little waif that has found a home in one or other of the numerous institutions for the reclamation of the outcasts of the streets of our great European cities, let it be known that the boys and girls of the "National Refuges" are not what—with a callousness and brutality that has not a single justifying circumstance—are called "gutter" children. While these homes are careful with regard to any signs of moral or physical defects in any applications made to them for the admission of a case, they refuse no child on the score of creed, etc. While there is room,

there are no limitations beyond those of physical or moral unfitness. Always having in view the healthy bodies and minds of the hundreds under their care, the committee welcome any case on the one recommendation of need. As an almost invariable rule it

could be enlisted in the splendid work.

We have again and again seen one little woman (mother-of-a-hundred-and-thirty healthy, noisy boys) beaming with delight at the success or brilliant achievement of one of her old boys in



Harvesting a bumper Oat Crop on the Farm School.

will be found that the children are cases in which the father has died and left the mother with more than she can do justice to single handed. Or it is a case of a "motherless bairn"; father a good

some far flung outwork of the Empire. Her eyes were wet with those glad dew drops that come unbidden from a mother's heart as she has told us of how one or another old boy has been heard from; or better still has had the manly thoughtfulness to visit her after having perhaps been twice round the world and "made good" in more ways than is represented by the substantial cheque or bank notes he proudly hands over to "the funds" as the best token he can offer of his undying gratitude.

What must the pride of these fine men and women be at the present moment as every despatch from the battle front brings the intelligence of how one lad after another has played the man to the last ditch; has held aloft by his simple untutored bravery the noblest traditions of the British character and, if necessary, fired his last shot or given the last drop in his water bottle to some less needy comrade, simply because his heart would not permit him to do less for a pal.

Such is a very incomplete account of one of the finest things we know of in our national life. We are not much concerned as to what vicissitudes our Old Motherland may pass through—what ups and downs in "temperature" the body politic may experience at the hands of this dreadful bit of "Surgery," so long as our young hopefuls are being safeguarded, drilled and inspired under such auspices.

Men and women of the Western Prairies—do you want a reliable man? Have you a desire to share in the luxury of being a factor in the continuance and far-reaching influence in this constructive scheme in our national affairs? The "Canadian Thresherman and Farmer" has taken this matter very much to heart and will be glad to respond to any inquiries on proffered assistance.

THE CANADIAN THRESHERMAN AND FARMER

CANADA'S LEADING AGRICULTURAL MAGAZINE

E. H. HEATH,
PRESIDENT

E. W. HAMILTON,
MANAGING DIRECTOR

E. C. BRAY, TREASURER



E. H. HEATH COMPANY, Limited,
WINNIPEG, CANADA



(MEMBERS WESTERN CANADA PRESS ASSOCIATION)

PUBLISHED MONTHLY BY

J. D. DUTHIE,
EDITOR

U.S. Representative—
JAS. A. BUCHANAN
1313 MARQUETTE BLDG.
CHICAGO, ILL.

AUTHORIZED BY THE POSTMASTER GENERAL, OTTAWA, CANADA, FOR TRANSMISSION AS SECOND CLASS MATTER

DEC.

"Smaller Farms---More Neighbors"

1914

OUR GUARANTEE

No advertisement is allowed in our columns until we are satisfied that the advertiser is absolutely reliable and that any subscriber can safely do business with him. If any subscriber is defrauded E. H. Heath Co., Ltd., will make good the loss resulting therefrom, if the event takes place within 30 days of date advertisement appeared, and complaint be made to us in writing with proofs, not later than ten days after its occurring, and provided, also, the subscriber in writing to the advertiser, stated that his advertisement was seen in "The Canadian Thresherman and Farmer." Be careful when writing an advertiser to say that you saw the advertisement in "The Canadian Thresherman and Farmer."

THE ISOLATION OF PRAIRIE LIFE has been and still is one of the biggest obstacles to the populating and cultivation of Western Canada by the class of settler who is fitted by temperament and education to meet all the conditions necessary to success. Every move in the direction of encouraging the "gregarious habit" should therefore be welcomed and assisted. That is putting it in rather undignified terms, perhaps; to be polite we ought to say that the social instinct should have free course and have the first and last place in any immigration propaganda that has for its objective the settlement of our agricultural lands.

THE NUMBER OF MISFITS in our western life are very great. No one can begin to suggest accurate statistics but we know that the proportion of deadbeats to the live wires is a sadly preponderating one in some localities at all events. They seem to bunch together. In the very nature of things it must be so because it is hardly possible for a habitually indolent and incompetent "farmer" to sit down as

neighbor to a man who is "all nerves" to make the very most of his opportunity, who cannot tolerate delay or waste or noxious weeds in his fields any more than he can suffer the idea of bugs and other banalities to the freedom of his home circle.

NECESSITY WILL NOT BE BLUFFED; the most uncongenial chaps sometimes get together when they are driven to it. Within the past few days several highly important meetings have been held with the object of devising some scheme for the proper allocation of unoccupied land in Western Canada and considering the question of improvement in the conditions of production. The meetings have been convened at the instance of possibly every interest represented in the country—the grain growers, the manufacturers, bankers, railway companies, heads of government departments and at least one eminent professional economist.

"MANY WISE AND SOME FOOLISH THINGS" have been aired at these meetings, says one newspaper correspondent. The Dominion Government has been asked to appoint a Commission to investigate this whole question, such Commission to proceed at once to work and be ready to report to the government by the opening of the coming session. "It is a big task to be completed in such a short time," said Sir Robert Borden. "I cannot give you a definite answer at present, but the question will receive our earnest consideration." The premier could not have given another answer to the request. If a commission is necessary, it is quite evident that a commission could never, in the time, overtake the ground it would be expected to cover even in a formal capacity.

BUT IS A COMMISSION NECESSARY? We hardly think so and are inclined to think with one of the speakers that the "commission" in very many cases is a convenient method of shelving important questions, the main points of which are already familiar to everyone concerned in them. We believe in "speedy action." The dilatory methods of our legislative specialists, whether "in the house" or on commission have occasioned more bad language and economic waste than would feed the united powers now at war throughout the entire campaign. But a commission will only mean two things—it COULDN'T mean "speedy action;" it would mean a protracted period of comfortable meetings in some well appointed hotels and in the end—a blue book!

NO MAN OF AFFAIRS IN CANADA can lay his hand on his heart and say that he does not know, that he is not painfully alive to all that is needed. On any railway journey, in any commercial room, at any dining table and in every church pew you will find several men and youths and women who are bristling with information as to what we need in Canada to-day. There isn't a unit of these platform orators and board-room savants who does not know and realize as definitely as he realizes what he needs in winter clothing just what the country needs to-day; and it isn't blue books, not even another page added to the Dominion Statute book.

"THE PROBLEM IS PRIMARILY A PERSONAL ONE; it is a problem calling for individual initiative and action," says the Saskatchewan Deputy Minister of Agriculture, and his contribution is by far and away the wisest and most valuable counsel that has come to us from the deliberations of this assembly of wisdom. Much to the same effect as we have harped on for many months he continues: "Farmers, as a rule, are over-supplied with land. They have tried to do too much work themselves because labor was scarce, high priced and none too efficient." Some of them, as we pointed out only last month, are land grabbers to a criminal extent and the "initiative" and "action" are due to come from these men before any commission can hope to do anything more than print a blue book.

"FARM LIFE STINKS IN THE NOSTRILS OF the farm women from Atlantic to Pacific," said the Lieut. Governor of Saskatchewan. Some English journals are persistently "knocking" the country and it is this one undeniable fact that provides them with their ammunition. We want women and children on every quarter section. One man batching it on a square mile of land is a bad outlook, but women and children exiled to such conditions is infinitely worse. They are entitled to the best and no less that civilization can give them.

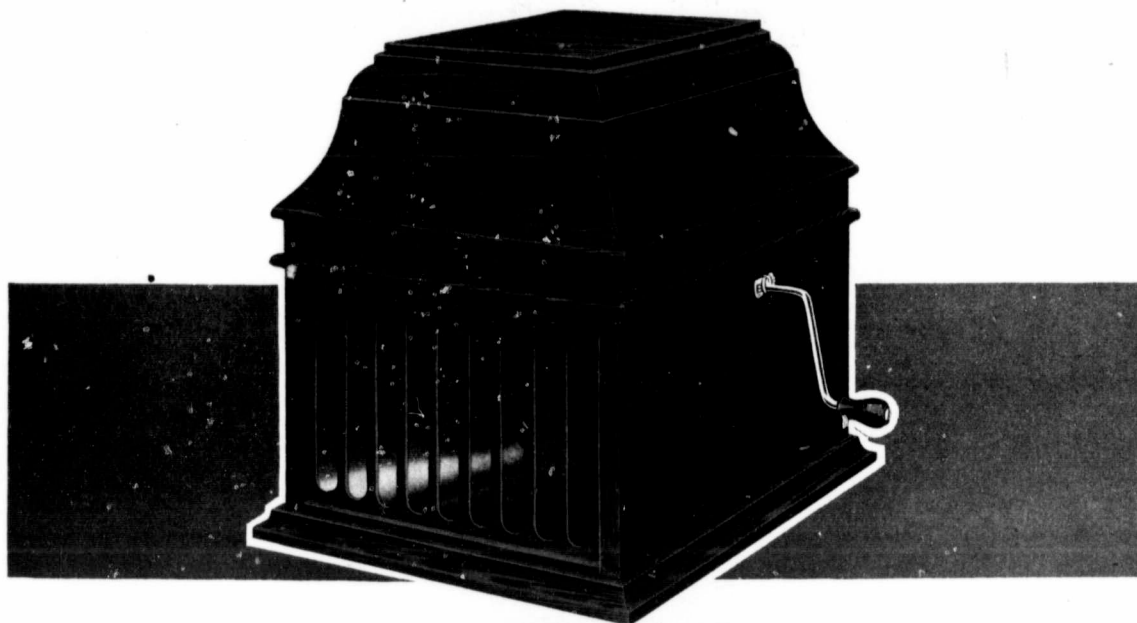
SUBSCRIPTION RATES

Postage prepaid,
Canada and Great
Britain,
\$1.00 Per Year.
Single copies 15 cents.
Postage prepaid,
United States and
Foreign Countries,
\$1.50 Per Year.

Failing to receive paper, you should notify the office at once, when mistakes, if any, will be corrected immediately. All Subscriptions must be paid for in advance and no subscription will be accepted for a shorter period than six months.

Advertising copy in order to secure good position should be in our hands not later than the 15th of the month preceding date of issue.

Advertising rates furnished on application.



Mr. Edison's Wonderful New Instrument

NEW! Master Instrument
Edison's Latest Invention

Mr. Edison's Pet and Hobby



among all his wonderful inventions is his phonograph. He worked for years striving to produce the most perfect phonograph. At last he has produced this new model. Think of it: over 25 years of work on all these epoch-making inventions—then his pet and hobby perfected!

A Happy Home

Happiness is life—and real happiness is found only in a real home. And by a real home I do not mean a house with a yard or farm around it. Oh, no! A real home is the place where the happy and united family gather together for mutual enjoyment and recreation. And the Edison makes this possible, for it stands supreme as the greatest home entertainer. It will mean more than amusement and enjoyment, more than an hour of amusement—yes, it will mean genuine pleasure of the lasting sort—helpful entertainment and culture of the most beneficial kind. It will mean the family united—a new home.



Such a variety of entertainment! Hear the latest up-to-date song hits of the big cities. Laugh until the tears stream down your face and your sides ache from laughing at the funniest of funny minstrel shows. Hear the grand old church hymns, the majestic choirs sing the famous anthems just as they sing them in the cathedrals of Europe. Hear the pealing organs, the crashing brass bands, the waltzes, the two-steps, the solos, duets and quartettes. You will sit awestricken at the wonderful grand operas as sung by the world's greatest singers. You will be moved by the tender, sweet harmony of quartettes singing those old melodies that you have heard all your life. Take your choice of any kind of entertainment. All will be yours with the Edison in your home. Send the coupon today.

WRITE today for our new Edison catalog—the catalog that tells you all about the wonderful new model Edison with Mr. Edison's new diamond point reproducer—the new parlor grand style. It will also tell you about our new Edison offer! Now read:

Free Loan—

We will send you the new model Edison Phonograph and your choice of all the brand new records on an absolutely free loan. We want you to hear all the waltzes, two steps, vaudevilles, minstrels, grand operas, the old sacred hymns, every kind of comic and popular music, also your choice of the highest grade concerts and operas, as rendered by the world's greatest artists. Entertain your family and friends. Give plays and concerts right in your own parlor. Hear the songs, solos, duets and quartettes, the pealing organs, the brass bands, the symphony orchestras, the choirs of Europe's great cathedrals, the piano and violin concerts, virtuoso—all these we want you to hear free as reproduced on the new Edison.

Then, when you are through with the outfit, you may send it back at our expense.

Remember, not a penny down—no deposit—no guarantee—no C.O.D. to us—no obligations to buy—a full free trial in your own home—direct from us—direct to you. Returnable at our expense or payable (if you want to keep it) at the actual rock-bottom price direct from us.

The Reason: Why should we make such an ultra-liberal offer? Why should we go to all this expense and trouble just so you can have all these free concerts? Well, we'll tell you: we are tremendously proud of this magnificent new instrument. When you get it in your town we know everybody will say that nothing like it has ever been heard—so wonderful, so grand, so beautiful, such a king of entertainers—so we are pretty sure that at least some one, if not you, then somebody else, will want to buy one of these new style Edisons, especially as they are being offered now at the most astounding rock-bottom price and on easy terms as low as a few dollars a month. But even if no one buys, there is no obligation and we'll be just as glad anyway that we sent you the new Edison on our free trial; for that is our way of advertising quickly everywhere the wonderful superiority of the new Edison.

Our New Edison Catalog Sent Free

Your name and address on a postal or in a letter, (or just the coupon) is enough. No obligations in asking for the catalog. Get this offer—*as fast as this offer lasts*. Fill out the coupon today.
F. K. Babson, Edison Phonograph Distributor
Dept. 7659, 355 Portage Ave., Winnipeg, Man.
U. S. Office: Edison Block, Chicago

COUPON

F. K. BABSON, Edison Phonograph Distributor
Dept. 7659, 355 Portage Ave., Winnipeg, Man.
Gentlemen:—Please send me your New Edison Catalog and full particulars of your free trial offer on the new model Edison Phonographs.

Name _____
Address _____



MIXED FARMING

MANITOBA - SASKATCHEWAN - ALBERTA

BY W.C. McKILLICAN B.S.A



No. 10. Harvesting and Storing Fodder Corn and Roots.

LAST month I endeavored to show the importance of corn and roots in a system of mixed farming, and discussed methods of growing these crops. This month it is proposed to continue this subject with a discussion of harvesting and storing.

Cutting Corn

Corn may be cut with an ordinary binder, with a corn binder or by hand with sickles or hoes. For much of the corn grown in Western Canada the grain binder is quite satisfactory. But that simply means that much of the corn grown is poor, short stuff that is scarcely worth growing. While corn is neglected and allowed to be smothered with weeds and volunteer grain, the grain binder will cut it; but where it is sown in properly prepared land and cultivated properly it will make too strong a growth for that method of cutting.

For small areas of heavy corn, hand cutting is the cheapest, but the scarcity of labor in the fall makes this method almost impracticable.

For fair or large sized areas of good corn the corn binder is a necessary implement. However, it is not necessary for every farmer to have one. One binder could very well do the work on three farms. If there is a spirit of co-operation among neighbors they may easily divide the cost of the corn binder and use it in turn.

Stooking

When the silo is not used, the corn must be stooked shortly after being cut. Corn stooked up in well-made large stooks keeps quite well and may be used at

any time during the winter. In starting stooks of corn a device called a stooking-jack is a great help. It consists simply of a 4-in. by 4-in. scantling 16 feet long with two legs about three feet long attached to one end of it. A light stick such as a broom handle fits loosely through a hole bored horizontally through the scantling about two or three feet from the end that has the legs. Holes for this broomstick may be bored in several places for high or low corn. This jack is stood where the stook is to be and sheaves of corn leaned against it in the corners made by the broomstick and the scantling. When enough corn is placed to stand alone, the broomstick is pulled out and the jack is drawn away. The stook should be made up to about six feet across at the base. The corn sheaves should all lean straight against the centre, a sideways lean is likely to start a twist in the stook and it will then go down. The stook should be tightly tied with binder twine about three quarters of the way up. In order to get this band tight the stook should first be drawn

together by means of a $\frac{3}{8}$ -in. or $\frac{1}{2}$ -in. rope with an iron ring in the end.

Stacking

Stacking corn is not a success as a general rule. It may sometimes be stacked in very cold weather and may keep while the cold continues. But in moderate weather it will spoil if stacked by itself. It can be stacked successfully by mixing it in layers with about four times its bulk of dry hay or straw.

When it is not convenient to leave stooks in the field until needed, they may be drawn to the barn and leaned against the wall, or fence or against trestles made on purpose. These should run east and west so that the snow would not be likely to pile up against them. Corn should not be piled in heaps or in a compact bulk of any kind (except the silo) as it will heat and spoil.

The Silo

The methods described above are all right for keeping corn for the beginner, for the man of very limited capital, or the man with only a very few acres of corn. But, for the established farmer

who is going in for cattle-raising and corn-growing as a regular permanent business, there is only one proper way of storing corn, and that is in the silo. It has great advantages in economy of saving the corn, in the value and palatability of the feed and in the convenience of using it. In an experiment conducted at Brandon Experimental Farm last winter, a lot of steers which received corn ensilage as the main part of their ration made an average gain of 340 lbs. in six months while another lot equally as good at the start, fed on dry corn fodder, made an average gain of 200 lbs. in the same time. The feed other than corn was identical for both lots.

For dairy cattle the advantage of ensilage over corn fodder is even more striking. Corn standing in the field in stooks suffers a considerable loss in food value and digestibility. When it is stored in the silo the loss is reduced to the minimum.

Silos are not very generally used in Western Canada as yet, but there are enough to prove that they are a decided success. Some

little difficulty with frost is experienced, but not enough to be an obstacle and certainly not worth counting as compared to the difficulty of getting in stooks out of the snow. There are a good many silos being built this year in Manitoba and soon the silo will be quite a common sight throughout the country.

For use in this country the wooden stave silo is probably most durable. It is cheap, easily constructed, less subject to frost than cement and fairly long lived. The cement silo if properly built is more durable, and there is no danger of it blowing over, but it is more expensive and more subject to frost.



A Song of the Soil—without Words.

Cushman Binder Engines for All Farm Work

Saves a Team



With a Cushman you can cut from 8 to 10 acres more and with less horses. If in heavy or tangled grain, and the sickle chokes, all you need do is to stop the team; the engine clears the sickle. Binder runs the same, whether horses go fast or slow or stop. Binder will wear several years longer, as it is not jerked faster and slower by the horses. Attachments furnished for any binder.

Designed for Canadian Conditions

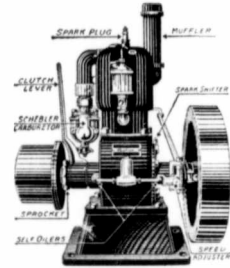
The Cushman Binder Engine was designed especially to meet farming conditions in Canada where the large wheat crops of the world are raised.

Horses were scarce and high-priced, and it was necessary to find some way to apply engine power to drive the sickle and binding apparatus of the binder, leaving the horses nothing to do but pull the machine.

The Cushman Binder Engine was designed to do this work, and also to do ALL OTHER FARM WORK, making one small engine all that any farmer need own in order to take care of all power jobs on the farm up to 4 or 4 1/2 h.p.

The Cushman Binder Engine attached to rear of binder, as shown in picture, saves a team on an 8-foot binder during harvest. After harvest, it may be taken off and used on all other jobs, such as pumping, grinding and grain elevating. In fact the 4 h.p. Cushman does all farm work, except very heavy grinding and threshing, for which the 8 h.p. and 20 h.p. Cushman Engines are built.

The first Cushman Binder Engine was brought into Canada in 1911, but there was so great a need for an engine of this type that the demand in 1912 and 1913 was very great, and now they are used on many farms all over Western Canada.



CUSHMAN 4 H.P. STATIONARY ENGINE

Same Engine used on Binder

Note the many special high grade features in equipment. Not found in ordinary engines.

Throttle Governed Cushmans Steady and Quiet--4 to 20 H.P.

Cushman 4-Cycle Engines are built to run without trouble and to do things no other engines will do. They represent a great advantage over ordinary Stationary Engines in vertical balanced design, material and workmanship. Highly efficient because of light weight, higher speed, reduced friction and lowered operating cost.

Very light and steady because of Throttle Governor and perfect balance. No jerky, explosive hit and miss running. Economical of fuel. Direct water circulating pump, preventing overheating, even on all-day run. May be run at any speed desired; speed changed while running. Enclosed Crank Case, gears running in bath of oil. Equipped with Schebler Carburetor and Friction Clutch Pulley. Mounted on Truck or Skid as preferred.

Because of very steady speed, the Cushman makes the best power for Cream Separators or Milking Machine, or for electric lighting outfits.

Cushman Engines are not cheap engines, but they are cheap in the long run. Guaranteed for ten years. Before buying any engine, get our free Cushman Engine Book.

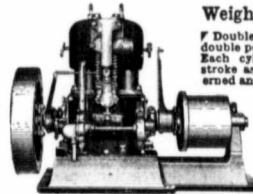
Light Weight Yet Powerful

The 4 H.P. Cushman weighs only 190 lbs., as compared with 600 to 1000 lbs. for ordinary engines of same horsepower. Stripped for the binder, it weighs only 167 lbs.

The 8 H.P. for heavy grinding, etc., weighs only 320 lbs. The 20 H.P., for threshing, etc., weighs only 1,200 lbs.

8 H.P. Two-Cylinder

Weight 320 lbs.



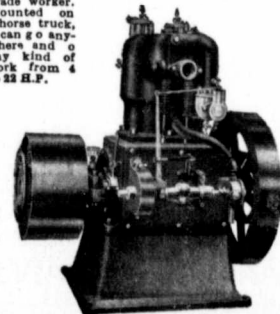
Double cylinders mean not only double power, but steadier power. Each cylinder is same bore and stroke as in 4 H.P. Throttle Governed and equipped with Schebler Carburetor and Friction Clutch Pulley. A splendid powerful engine for heavier work than 4 H.P. can handle, such as heavy grinding, small threshers, etc., or for any power from 8 to 9 H.P.

Talk with your Dealer about Cushman Lines and write for free Catalog

20 H.P. Two Cylinder

Weight 1,200 lbs.

For Threshers and other very heavy work. Built as heavy as necessary, yet weighs only 1,200 lbs. because of advanced Cushman design. Equipped with Gear-driven high tension Magneto and Clutch Pulley. With water cooling tank, it weighs only about 1,000 lbs. A wonderful and high grade worker. Mounted on 2-horse truck, it can go anywhere and do any kind of work from 4 to 22 H.P.



Quality Pump Jacks

Double Geared. Double Braced.

WRITE FOR PRICES



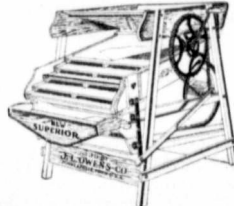
Alex. Irving, Cummings P.O., Vermilion, Alberta, Canada, writes: "I feel it is my duty to write and tell you how my engine is doing. I have been sawing wood lately and it has been working fine; no trouble to start whatever. I am running an 8-inch I.H.C. grain grinder with it and it handles it nicely. I have put in a line shaft and run the churn, washing machine and cream separator. The Cushman is good for either light or heavy work. Everyone that sees it thinks it is the only engine and want to know where they can get one like it."

Lincoln Grinders Best for Canada

For coarse and fine grinding. Buhrs are self-sharpening, self-aligning you cannot get them on wrong. "Shear" the grain instead of mashing it. Especially adapted to the Cushman Binder Engines, 4 to 8 H.P., or may be used with any other engines.



KING OF WILD OAT SEPARATORS



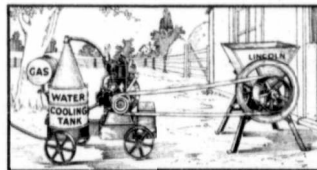
"New" Superior Fanning Mills Best for Canada

Thirty years' use has proven this the best mill for Canadian work. Most perfect system for separating wild and tame oats from wheat and barley. Built in sizes for all hand or power work. Run with 4 H.P. Cushman Binder Engines, or with any other engine. Try one free on your farm.

CUSHMAN MOTOR WORKS OF CANADA

Builders of Light Weight Engines for Farm and Binder use. Distributors of Reliable Power Driven Machines, such as Fanning Mills, Grinders, Saws, Cream Separators, Power Washing Machines, etc. Also Barn Door Hangers and Mountaineer Neck Yoke Centers

286 Princess Street WINNIPEG, Man.



4 H.P. Handy Cushman Truck Outfit Same Engine may be put on Binder during Harvest

Canadian Thresher Belts

Appeal to every man who has an interest in the real development of his country—not only because they are “Canadian Made,” but because of the still prouder circumstance that there are no better belts made, few so well made by any foreign factory the world over. Our best Christmas wish to you, Mr. Thresherman, is that you may experience the satisfaction of running your machinery either with the



Lion Brand

Rubber Belt

OR THE

Maple Leaf

Endless Thresher Belt



You can get them from any thresher company doing business in Canada. They cost a little more than other fabrics that are a big risk from the day they are used in any power transmission, but we guarantee our goods against all disappointments from slippage or breaking. They are the “guards” that will never betray their trust under any pressure—at threshing time or at any time.

Gutta Percha and Rubber Limited, WINNIPEG CALGARY

NOT IN ANY TRUST OR COMBINE

You saw this advertisement in this magazine. Don't forget to say so when writing.

Mixed Farming

Continued from page 12

It requires more skill to build it as ordinary cement work is not suitable for a silo. The juices of the corn act on the concrete and cause it to lose its strength unless it is very hard and non-porous.

For filling the silo, special machinery is required. These machines cut up the corn into small pieces and elevate it to the top of the silo. There are two types; the blower, and the chain elevator. The blower is a powerful, fast working machine, requiring at least a 15 horse power engine and doing a very satisfactory and speedy job. The other type with the chain elevator is easily driven, a tread power or small gasoline engine being capable of driving it, but it is slower and has to be fed more carefully.

In filling a silo it is not necessary to tramp all the corn as it comes in, but the outer edge along the wall should be tramped. This is to prevent uneven settling and consequent moulding around the edge. Also it should be well tramped all over the top, so as to lessen rotting on the top. There is always a certain amount of rot at the top, but if it is well tramped the loss may be reduced. The silage should be spread and mixed as it falls into the silo. Sometimes the light leaves ac-

cumulate in one place. If left that way, they are in danger of moulding. They should be mixed with the heavy part of the corn.

The silo is emptied from the top downward. The surface should always be kept level on top. The only deviation from level should be at the outer edge, where it should be kept lower to lessen freezing. If the silage is fed out regularly and not too slowly there will be no trouble with spoiling and very little with frost.

Roots

The harvesting of roots usually means pulling them by hand. With mangels this is the only satisfactory way. Turnips may sometimes be harrowed out with an ordinary drag harrow.

Mangel tops should be twisted off with the hand. This is much better than cutting as it takes all the tops off clean, and also it avoids making the mangel bleed and decay. Turnip tops should be cut off with a knife or sickle when they are pulled by hand. When the pulling is done with the harrow, the tops should be cut off, before pulling, with sharp hoes.

Storing

The best place to store roots is in a root cellar adjacent to the stable. Where a barn is built on the side of a hill, it offers an

ideal site for a root cellar. The root cellar may be completely under ground and at the same time on the same level with the stable. This kind of building site is not very common in the West and some artificial banking up is deemed necessary. Placing the root cellar under the driveway is a good arrangement, or if the drainage is good it may be placed below the stable level under a feed room or mow. Concrete is the best material for root cellar construction but it may also be made of logs. Whenever possible it should be covered with a good bank of earth. Where the outside protection is not very good the walls should be lined with matched lumber with a dead air space between the lumber and the concrete. Provision for ventilation should always be left in a root cellar.

Where it is impossible to have a regular root cellar, roots may be stored in pits outside. They may be kept quite satisfactorily in this way, but it is very difficult to use them with satisfaction as the opening of the pit to get some exposes the remainder of the contents to frost.

Pits are made by digging out a hole about two or three feet deep and the size desired, in a well drained place in the field. The

roots are piled here in a shapely pile. They are covered with alternate layers of straw and earth, making the covering about a foot thick. At the top of the pile holes should be kept where straw only is put. These are for ventilation, and if they are not provided the roots are likely to spoil during the early part of the season. Later on, when the severest weather comes they should be closed up. It is better to have several small pits than a large one. The roots may then be taken in from one pit at a time without exposing the others. In order to use from pits in the winter, storage inside must be provided for the contents of one pit at a time.

Distribution of Seed Grain and Potatoes

From the Dominion Experimental Farms, 1914-1915.

By instructions of the Hon. Minister of Agriculture a distribution of superior sorts of grain and potatoes will be made during the coming winter and spring to Canadian farmers. The samples for general distribution will consist of spring wheat (about 5 lbs.), white oats (about 4 lbs.), barley (about 5 lbs.), and field peas

(about 5 lbs.). These will be sent out from Ottawa. A distribution of potatoes (in 3lb. samples) will be carried on from several of the experimental farms, the Central Farm at Ottawa supplying only the provinces of Ontario and Quebec. All samples will be sent free, by mail.

Applicants must give particulars in regard to the soil on their farms, and some account of their experience with such kinds of grain (or potatoes) as they have grown, so that a promising sort for their conditions may be selected.

Each application must be separate and must be signed by the applicant. Only one sample of grain and one of potatoes can be sent to each farm. If both samples are asked for in the same letter only one will be sent. Applications on any kind of printed form cannot be accepted.

As the supply of seed is limited, farmers are advised to apply early, but the applications will not necessarily be filled in the exact order in which they are received. Preference will always be given to the most thoughtful and explicit requests. Applications received after the end of January will probably be too late.

All applications for grain (and applications from the provinces of Ontario and Quebec for potatoes) should be addressed to the Dominion Cerealists, Central Experimental Farm, Ottawa. Such applications require no postage. If otherwise addressed delay and disappointment may occur.

Applications, for potatoes, from farmers in any other provinces should be addressed (postage prepaid) to the Superintendent of the nearest Branch Experimental Farm in that province.

The Only Sugar Beet Factory in Western Canada
By W. McD. TAIT.

Southern Alberta has the only factory for the manufacture of the sugar beet in Western Canada. There are only three such factories in Canada. One of these is at Wallaceburg and the other at Berlin, Ontario. There are five refineries—one at Vancouver, two at Montreal, and two at Halifax—but as no sugar cane is grown in Canada, the entire raw material must be imported from the British West Indies or the United States.

The Raymond factory was built in 1902 and is the largest in Canada. During construction some 300 men were employed as engineers, steel workers, riveters, masons and laborers.

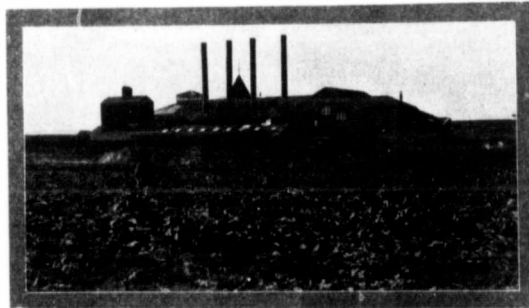
The plant cost over \$500,000 and meant the purchase of 250,000 bricks; 50 cars of lumber; 250 barrels of cement; 25 cars of structural steel; and 50 cars of machinery. The building is a handsome one, built throughout of brick and steel with cement

floors, and is absolutely fireproof. It is three storeys high, and contains a lime kiln, storage rooms, and beet sheds. Twenty tons of lime rock are burned in a season to provide lime and generate gas for the carburetors. There are 1,500 tons of machinery installed; 15 different pumps are used; and the piping throughout the works, if laid end to end, would spread over the prairie for 50 miles.

SEEDS FOR THE WEST
SELECTED, EARLY, HARDY, PRODUCTIVE VARIETIES

Write for Catalogue
Ready Jan. 1st., 1915

Steele, Briggs Seed Co. Limited
Winnipeg



Sugar Beet Factory, Raymond, Alta.

BARTH



WITH this Jack two men can raise or lower a load of 6 tons (12,000) lbs. a distance of eleven inches in one half minute. Ask your dealer for the Jack. Ask us for a catalogue.

BARTH MFG. CO.
185 L ST., MILWAUKEE, WIS.

JACK

Name this magazine when writing advertisers

"So you've taken to cycling at last, have you?"

"How did you find that out?"

"I saw you on your wheel yesterday."

"I am glad to hear that. All the rest of my friends happened to see me when I was off!"

PREPAID FREIGHT

Until Feb. 28th, 1915 on \$9.00 orders of Hawkey's Stock Tonic, Stock Remedies, and Hawkey's Oil Cake—THE GREAT FATTENER.

Write for **SPECIAL OFFER** and Hawkey's 96-page Vest Pocket Book on "Diseases of Stock," with sample package of Tonic. **GUARANTEED TO GET RESULTS, OR MONEY REFUNDED.**

EARLY BUYERS get the benefit of the reduced price of BINDER CANVASSES.

| | Regular Price | Special Price |
|----------------|---------------|---------------|
| Upper Elevator | \$3.50 | \$2.90 |
| Lower Elevator | 4.00 | 3.25 |
| 6-ft. Platform | 4.50 | 3.65 |
| 7-ft. Platform | 5.00 | 3.90 |
| 8-ft. Platform | 5.50 | 4.35 |



BE SURE You Get the **HAWKEY SHARE** With the Red Label. It is the Best.

Every Make

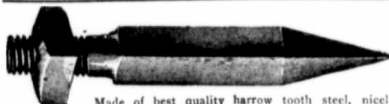
Write for Catalog

Every Size



Fully Warranted

ORDER THEM AT ONCE as this Offer expires February 28th, 1915. Have your Plow Shares, etc. come along at the same time and **SAVE ON THE FREIGHT CHARGES.**



Steel Harrow Teeth
6c. each

Made of best quality harrow tooth steel, nicely finished and sharply pointed, size 9-16 in. square and 3/8 in. shank, supplied with ordinary or long lengths. Long shanks are used for the three cross pieces. Weight 8 ounces.
No. 8A with ordinary shanks 6c. each
No. 9A with long shanks 6c. each



H. R. HAWKEY & CO.
Knock Down Cutter Gear

FINEST QUALITY

Turn your buggy into a cutter for **\$9.85** by using one of Hawkey's Knock Down Cutter Gears.

Any ordinary buggy box may be quickly attached, making a thorough practical Cutter. Very easily attached, set up and easily dismantled. Circular request.

Kindly send in **FREE OF CHARGE** the articles Hawkey's General Hardware Catalogue, Hawkey's Vest Pocket Book of 96 pages, on Sample packages of Stock Tonic, Food and Special Offer Name Address C.T.F.

H. R. HAWKEY & CO.,

MAIL ORDER SPECIALISTS

WINNIPEG, MAN.

PRACTICAL TALKS TO THRESHERMEN

Talk No. LXXXVI.

Conducted By PROFESSOR P. S. ROSE

Note.—The term "gas engine" in these lessons will be used indiscriminately in speaking about all internal combustion engines.

ANOTHER type of wheel that prominence is what is has come into considerable known as the caterpillar wheel. This was originally an English invention, and was first brought out more than fifty years ago. A few machines were built at that time equipped with caterpillar wheels, but they did not come into general use for the reason that the sand and grit of the fields got into the various joints and bearings of the wheel and quickly ground out. It was recognized at the time, however, that road wheels of this construction possessed certain advantages in soft ground, such as deep sand or mud. The amount of bearing surface was so much larger on the ground than could be obtained with a round wheel that a tractor provided with caterpillar wheels could pass over a sand hill or over boggy ground that was absolutely impassable to a machine with round wheels.

Figure 199 shows a caterpillar wheel such as is used at the present time by the Holt Com-

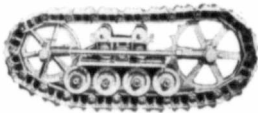


Fig. 199. The Holt Caterpillar Wheel.

pany. They claim that the early objections have been overcome and that their wheel will last fully as long as a round wheel. It will be noticed that the wheel is in reality a sort of portable track which the machine lays ahead of itself as it progresses over the ground. As built by the Holt Company, each of the rear wheels of their tractor is about eight feet long and from sixteen to thirty inches wide. This provides perhaps twenty times as much supporting surface for the rear of the machine as the largest of the round wheel machines. This type of wheel is used both on their steam traction engines and on their gas tractors.

Strait's tractor, which is being manufactured by the Killen-Walsh Company at Appleton, Wisconsin, not only uses caterpillar wheels for the drivers, but for the single front wheel of their tractor also. The construction of their wheel differs in some respects from the Holt wheel and will be described in detail when we undertake a discussion of light weight tractors.

Another old English invention is known as the pedrail wheel, a

diagram of which is shown in figure 200. In this wheel an attempt is made to imitate the action of a horse's foot. Each one of the feet is attached to the rim of the central wheel by means of a knuckle joint which permits it to set flat on the ground. This wheel has never come into general prominence, but it possesses certain advantages that make it appear quite attractive. A machine fitted with wheels of this kind can, it is claimed, propel itself up a flight of steps, a feat that would be impossible with any other type of wheel. Experiments with the pedrail wheel have been going on in England during the last three or four years and it may yet come into use in this country. Either this wheel or the caterpillar could not be reasonably objected to by the most unreasonable of the good road fanatics.

Large vs. Small Wheels.—The question of whether to adopt a large wheel, that is, one of large diameter, or one of small diameter, is one that every manufacturer of tractors of whatever description has had to consider. The desire of every one is to use a small wheel. It costs less to build. It weighs less, and weight is a serious consideration. Also, if a large wheel is adopted it means that every part must be made a great deal heavier. A wheel is built like a bridge. The same laws that apply to building bridges or roof trusses also apply to the building of wheels. This being the case, it is not difficult to show that if a wheel is made twice the diameter its parts must be four times heavier. That is why the large wheels are both expensive and heavy. Manufacturers do not like to resort to wheels of large diameter, but there are certain reasons why it seems unavoidable. First, they want a machine with the maximum draw bar pull for a given power of motor. Second, they want a tractor that will not settle down into every chuck hole in the road or field. Third, they want a machine with the maximum possible area of supporting surface. All of these considerations point to the necessity of a wheel of large diameter. If they could always operate their engines on a smooth highway, wheels of four or five feet in diameter would be sufficient, but where they must travel over rough ground, over plowed ground or rough unbroken prairie, the small wheel is not

quite as efficient as the large one despite its smaller weight.

Figure 200 will give a pretty good idea of field conditions. In every case the wheel is supposed to have sunk into the ground the same distance, three inches. The

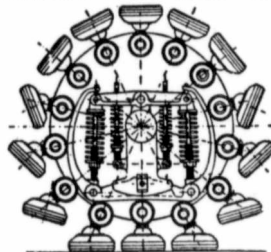


Fig. 200. Diplock's Patent Pedrail Wheel.

small rectangles, with numbers corresponding to the wheels, show the relative amount of bearing surface of each wheel under the assumption that the total projected area, touching the ground supports the wheel at the given instant. This assumption is probably not quite true but even if not the rectangles should show comparative values accurately. Some observers, it may be remarked, claim that the ground at

a small wheel it requires a relatively smaller block to stop it than if the wheel is large. This is because the grade it has to climb is so much steeper. In other words, the lift is more nearly vertical. It is always easier to roll a load up a long, easy slope than up a steep one, even if the total lift be the same in both cases. This is why on rough ground it requires less power to propel a tractor with high wheels than one with low ones. The result of these various considerations has led designers, especially of the heavy tractors, to universally adopt high wheels ranging from six feet in diameter to as high as eight feet.

Before traction engines were built for plowing and other heavy road work it was quite common to mount the rear wheels on stub axles attached to the sides of the fire box. This method of construction was cheap and gave fair satisfaction for engines designed merely for threshing purposes, where all they had to do was to haul the separator and perhaps the water tank from one job to the next. When this was all a

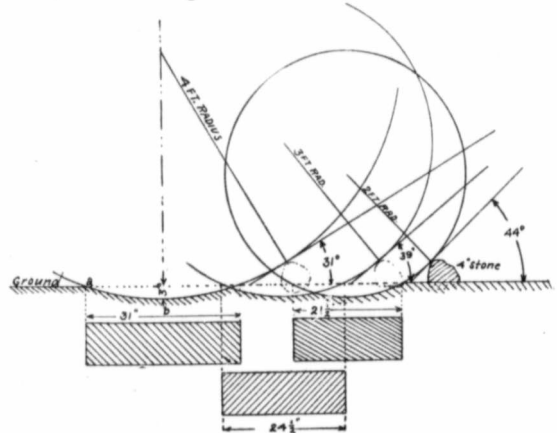


Fig. 201. Diagram showing action of wheels of large diameter.

a-b under the wheels does not support as much of the weight of the machine when it is in motion as the part under the front of the wheel. This is perhaps true, but even if it is, the rectangles should be proportionately correct for the different wheels.

Also under the front of each wheel we have assumed a block or stone four inches high, and drawn a line tangent to the wheel at this point. This shows the angle of inclination that the tractor is obliged to climb at the given instant. As everyone knows with

traction engine had to do, the wheels and gearing usually lasted as long as the boiler and that was long enough. There was always considerable rattling of the gearing when an engine had been used several years, but no one paid much attention to such a minor matter as that. It was not uncommon to see an engine that had done a good deal of traveling with the rear wheels leaning either in or out at the top. There was also more or less trouble with the leaking of the boiler

Continued on page 15



28 "Service" Branches Throughout Canada
Canadian Consolidated Rubber Co.
Limited
 MONTREAL, P.Q.



The Conditions under Which Our Endless Thresher Belts and Beltings are made Serve to Substantiate their Superiority

Come with us on a mental journey through our Belting Plant, and see with your mind's eye the **unusual** precautions which we take to **win and hold** your confidence—to put **100 %** of Service and Value in each and every Belt which we produce.

The Material Room

This is the material room where the various grades of duck are stored. Note its **fine** quality and the **immense** quantities which we have to purchase in order to cope with the demand for our Belting. Each **foot** of this duck has been **examined** by experts and the pieces which showed even the **slightest** imperfections have been **discarded**. Even the **unseen** parts of our Belts are **100 %** Perfect.

Drying the Duck

The Duck is first sent to the drying room in order to prevent against any **possibility** of moisture remaining in it. When this precaution is **not** adopted the belts crack, stretch and break. **All** our duck is thoroughly dried before use.

Vulcanizing and Finishing the Belt

Having **stretched** the frictioned duck to the **limit** of tension—thus eliminating any sagging tendencies from the finished belt—it is then sent to this huge belt making machine. See how the tough rubber stock is evenly distributed over the surface of the frictioned and vulcanized fabric.

Those experts are examining it again for imperfections before it goes to the vulcanizing room, where it is vulcanized into a permanently solid piece. After that the belt is finished and is as nearly perfect as human ingenuity can possibly make it.

The Frictioning Machines

Watch them putting the duck—from which all the "stretch" has been taken—through these huge frictioning machines. Note how these heavy steel drums drive and force the high grade rubber stock, at **tremendous** pressure, through every strand and fibre of the duck. See how **carefully** the frictioned duck is **examined** for imperfections—flaws **can't** possibly pass unnoticed.

Cutting the Frictioned Duck

Here is the frictioned duck going through the cutting machines. Watch **how** perfectly the guillotine-like knives do the work and how each strip is **closely** scrutinized for ragged finish. There is **no** chance for human carelessness to mar the perfect work.

Let Us Make Your Next Belt. It is Sure to Give You Satisfaction

If you are not Getting the Service you should from the Belting you buy, let us demonstrate what our Beltings will do. We would welcome an opportunity to prove that they possess **Greater TENSILE STRENGTH, FLEXIBILITY, GRIPPING POWER AND SURFACE TOUGHNESS** than the Beltings you are now using.

Our Nearest Branch Will Give You Interesting Facts and Figures



Canadian Consolidated Rubber Co.
Limited
 MONTREAL, P.Q.



28 "Service" Branches Throughout Canada

Our Complete Crushing Outfit

10 in., \$38.50

8 in., \$31.00

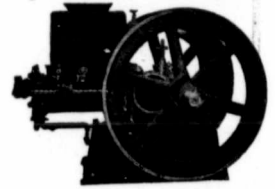


10" Crusher, 7½ H.P. Engine, and \$233.50
30 feet of 5 inch Drive Belt

Or

8" Crusher, 5 H.P. Engine, With \$161.00
Belt

¾ H.P., \$195.00 5 H.P., \$130.00



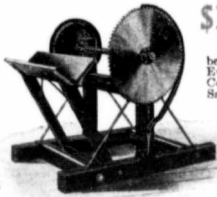
Stover Lines add Comfort to the Home and Efficiency to the Farmer

The Stover Gasoline Engine

Will develop at least 10% over rated power. Manufactured by one of the largest gasoline engine manufacturers in the world. Known the world over, and a standard to go by everywhere. Engines from 1½ H.P. up. F.O.B. Brandon - - 5 H.P. \$130.00 7½ H.P. \$195.00

Big Saving in Wood Saws

\$18.00



Saw your own wood pile, as well as your neighbor's, and save money. We can sell you the very best saw at lowest possible price. Everything in Cordwood and Pole Saws. Cordwood Saw Frame, \$18.00; Pole Saw Frame, \$21.00.
Saw Blades, 24-inch, \$6.50
Saw Blades, 26-inch, 7.50
Saw Blades, 28-inch, 8.50
Saw Blades, 30-inch, 9.50
Guards made adjustable for any kind of saw. All babbit bearings, cold rolled steel shaftings, heavy hardwood frame. Prices f.o.b. Brandon.

DO YOU USE
Dry Cells, Crusher Plates, Harness, Oils, Plow Sharps, Bag Holders, Scales, Buggies, Harrows, Threshers' Supplies, Belting, Cultivators, Plows, Grain Crushers, Pole Saws, etc. ?
WRITE US FOR PRICES—THEY READ LIKE A ROMANCE

Power Washing Machine

1½ H.P. Engine, Washing Machine, and Belt complete

\$64.50

OUR FULL LINE includes Fuller & Johnson repairs; repairs for the Wilkinson Plow line; hares for all kinds of plows at reasonable price; wholesale and retail; Engine for pumping, churning, crushing, grain cleaning, sawing, threshing, and running washing machines.

We Handle Every Known Farm Requisite

When you come to Brandon visit our mammoth warerooms, and have your mail sent to our care.

Write for our Special Catalogue

Canadian Stover Gasoline Engine Company, Limited

8th and Pacific Avenue

The Original Farmers Company

BRANDON, Man.

You saw this advertisement in this magazine. Don't forget to say so when writing.

Practical Talks

Continued from page 16

around the stay bolts that fastened the rear axle brackets to the boiler. These troubles, however, did not show up very seriously with small engines of 6- to 15-horse power, but when the larger sizes came into vogue they gave a great deal of trouble. The first and most obvious remedy was to increase the size of the rear bracket until it almost covered the side of the fire box. This, of course, helped a good deal, but it did not cure the trouble. A sheet steel box is not a very stiff structure at best, especially when all the stresses of traction are transmitted through the boiler. It bends more or less. The whole boiler twists and the sides of the fire box spring in and out. This makes it impossible to keep the gears in line and they wear out quickly. Especially was this the case when such engines were put into heavy work like hauling a dozen plows over rough prairie. The ordinary gears used on the old threshing engines would last a week. The next step was to make them heavier and give the teeth greater pitch, that is, make them larger. This helped matters a good deal; but the fact that there was no certain method of align-

ing them in the first place and keeping them in line during work, when mounted on stub axles, made them wear out rapidly. Another step in the direction of strengthening them was to make them of semi-steel instead of cast iron. Semi-steel gears were made of a mixture of cast iron and steel in the proportion of about thirty per cent steel to seventy per cent iron. The mixture was put into the cupola in the foundry and all melted together. The resulting castings were harder and very much stronger than plain cast iron castings. They stood up to the work much better and were a great deal lighter than iron castings of the same strength. Several of the companies tried cast wheels made entirely of steel. These were exceedingly strong. The teeth would bend before they would break but they wore out quickly when exposed to the grit and dust of road traffic. They were not as successful as the cast iron wheel. The final result of all this experimenting with gearing was that for rough cast driving gears semi-steel is used exclusively on all tractors, whether steam or gas driven. Where cut steel gears are used, as they are on so many of the modern gas tractors, they are always mounted on through shafts that keep them in

perfect alignment and, being cut to the correct shape, there is not much grinding. In the case of automobiles and a great many gas tractors, the gears are hardened to almost glass hardness and then ground so that the teeth are of perfect shape. Gears of this kind running in a bath of oil will run under the hardest service for months or even years without showing material signs of wear.

The greatest step taken by the steam tractor people to make a strong, serviceable tractor was to discard the stub axle for the rear drivers and also for the intermediate gear and mount all the gears on through axles. This made necessary another good change in construction and that was to adopt the rear axle

type of construction. This made a much longer engine, a form of construction the stub axle people happily got away from, but it possessed the advantage of throwing the center of weight of the entire machine ahead of the drivers and made a perfectly stable machine and one that had no tendency to lift up in front even on the steepest grades. Experience has amply demonstrated that this is the correct form of construction for all hauling engines. As a usual thing most designers have adopted the live axle type for the rear axle. That is, the axle turns in a long bearing with the wheels, and this bearing is attached to the rear of the fire box.



Buy a Gregg Malleable Knee Sleigh

Gregg Malleable knee sleighs are made with tough, white Oak Runners the knees are guaranteed unbreakable, the shoes are made of spring steel, and all braces of heavy mild steel. These features mean strong, long wearing, easy running—the right sleigh to buy.

Gregg Manufacturing Co., Ltd.

Winnipeg

Farmers!

You get all your grain is worth and prompt returns when you ship to us.

The Square Deal Grain Co. Ltd.
414 Chambers of Commerce WINNIPEG

The Disc Harrow

THE disc harrow is one of our most important implements used on the farm. It is like all of our other implements it has undergone a great many changes of improvements. Some of these changes have been disadvantageous because the use of the disc has never been rightly understood by a large number of farmers.

The great value of the disc-harrow is in its being so well adapted to keeping the soil moisture, killing weeds and preparing the soil for receiving the rain-water which improves the physical condition of the land. The early spring use of the disc is a great advantage to the soil in pulverizing it to receive and make use of the further rains by preventing a great deal of evaporation which will increase the yield of grain very greatly. This extra yield is produced in this way by very little extra expense.

In working the fields for the summer culture there is no implement that can take its place if cost of labor and the value of the work are considered. It must be remembered that the great value of summer culture is not only in the storing and holding of the rain water or moisture but in having a soil condition which promotes development of the elements which give strong healthy growth to all the plants. To promote this condition of affairs we must put forth every possible effort to prevent the loss of this moisture from beneath the mulch on the firm soil. To do this several detrimental conditions must be looked after and as far as we can, prevent it. The growth of all foreign vegetation and weeds must be kept down. The mulch must not be gotten too fine, which often happens from too frequent cultivation of the land but it must be kept from getting hard and packed.

The disc cannot always be used in an orchard as successfully as on open land but it is hard to handle the soil without its use. Here also the same conditions of the soil must be watched very closely. The less the fall of rain the more care should be used. The disc harrow can be used on land plowed in the fall to completely pulverize it and make it into small clods by its rotating action, if the right size of disc is used the work is done very well. The small disc is here the best or most effective as the large disc cuts too deeply.

It is a good plan to use the disc in early spring on the land to be plowed, after being left over winter without plowing. That is when the soil is thawed and is dry enough not to stick to the disc.

The best results are had by double discing the ground by overlapping as it puts the soil in good shape to receive the early spring rains. In this case the diameter of the disc does not make so much difference.

It is a very good plan to disc the land as soon as possible after the crops are taken off. Even if this could be done right behind the binder because it would prevent the rays of the sun getting at the packed, crusted soil. This is rather hard to understand clearly enough to get its full meaning. There are several reasons why this is very important. It will also start a great many of the weed seeds to grow at this time which gives us a good chance to kill them.

July and August are the two months of the year when the water near the surface of the soil in right amounts will bring about its most valued chemical changes which increase the next crop. These changes will not take place if the moisture is too low or there is a crust on the surface or under the mulch. There must be the right amount of air and water in the loose soil. The better a man understands this the better crops he will have each year.

If there is moisture in the soil after harvest it will come up by the capillary attraction which is provided by nature if the soil is firm under the mulch, if it is made to a proper thickness. If no rains come this moisture will help the plowing wonderfully in a very short time. This moisture can be carried over till the next year. In this way if the plowing is not done in the fall.

If we wish to sow fall wheat this kind of discing may bring many more bushels the next year. By keeping this moisture as shown above, the next rain will go in more quickly and deeply. If the soil does pack after this the common harrow will loosen it up after this very nicely, as soon as it is fit to work. This moisture will keep the soil in good shape for the plow. Of course if the plowing is not done at once the disc may again be used to keep the soil firm but loose enough to hold the moisture.

The disc harrow will do a great deal to help hold the moisture in a dry year. A good crop in a dry year will mean more money to the farmer. This crop he finds comes from his more intelligent use of the disc-harrow. He also becomes more thoroughly familiar with the correct principles of the soil culture or we may say scientific tillage. Then when droughty seasons come he fully appreciates the merits of the disc-harrow. Therefore I consider the disc-harrow one of my most useful implements on the farm.

Jno. N. Newton.



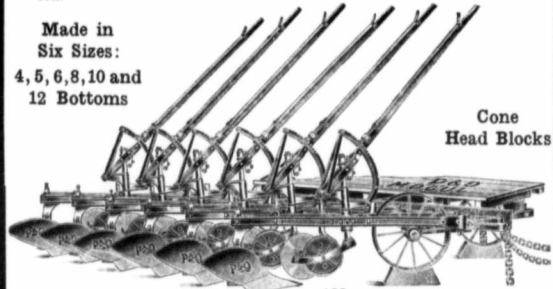
MOGUL ENGINE PLOWS

Trade Mark

Individual hand levers, long and powerful, afford instant adjustment and absolute control of bottoms under all conditions. These levers are arranged to converge toward a common center, thereby facilitating their operation. By the latter feature you may know a Mogul as far as you can see it for it is the only plow which is so constructed.

The construction of the whole plow is symmetrical and substantial. It is built to stand the hardest kind of work. The frame is built of heavy angle iron, securely braced and bolted. The bottoms are as good as experience, the best material, and the most rigid inspection can make them. The various styles of bottoms are interchangeable. The styles include Scotch Clipper, Stubble, Prairie Breaker, Rod Breaker, etc., so that you can get a plow equipped with bottoms to suit your soil.

Made in
Six Sizes:
4, 5, 6, 8, 10 and
12 Bottoms



Cone
Head Blocks

Other important features are: Pin break, spacing blocks between beams to insure alignment, ratchet stops to gauge depth, and cone head blocks for taking up looseness in beam couplings resultant from wear.

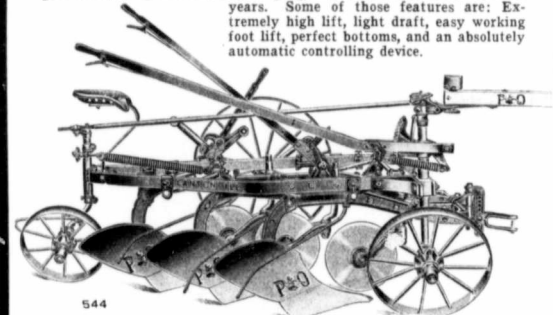
Write for Pamphlet "Traction Engine Plowing."

We protect purchasers of P. & O. implements from litigation or damage suits because of patents.



Three Furrow Diamond

The "Three-Furrow" is the largest of our famous line of Diamond Riding Plows, and is intended for use with 6 or 7 horses. It has all the good features of the two-furrow gang, which has been a favorite for years. Some of those features are: Extremely high lift, light draft, easy working foot lift, perfect bottoms, and an absolutely automatic controlling device.



The P. & O. Three-Furrow Diamond is especially suited to the needs of the man who has too much plowing for the ordinary riding plow, but not enough to warrant the purchase of an engine outfit. It will stand the hardest usage, and like every other tool we make, is backed by our UNQUALIFIED GUARANTEE. Write for circular.

PARLIN & ORENDORFF CO.
CANTON, ILL., U.S.A.

International Harvester Co. of Canada
LIMITED

Sole Agents for Canada

Winnipeg Brandon Regina Saskatoon Yorkton
North Battleford Estevan Calgary
Edmonton Lethbridge

You saw this advertisement in this magazine. Don't forget to say so when writing.

In Time of War Prepare for Peace

This is a perversion of an old adage but at this time seems quite apt.

Canada now more than ever must serve as

The Bread Basket of the World.

Prepare, therefore, for a bigger and better crop for 1915 than you have ever before produced. It is not only your privilege, but you owe it to your country and to humanity to do your utmost in helping to feed the world.

If you would have your farming operations result in the greatest possible good to humanity and also in the greatest possible profit to yourself, introduce power farming methods in your work. In other words, farm scientifically.

To this end we offer for your consideration

“The Great Minneapolis Line” Of Power Farming Machinery.

We also at this time wish to thank our many customers in Canada for the generous patronage given us in the past, and we extend to them as well as to all Threshermen and Farmers in Canada

Christmas Greetings !

May the New Year Bring You Peace,
Prosperity, Health and Happiness.

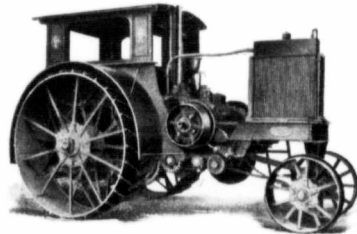
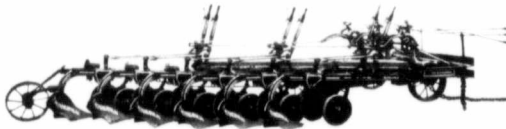
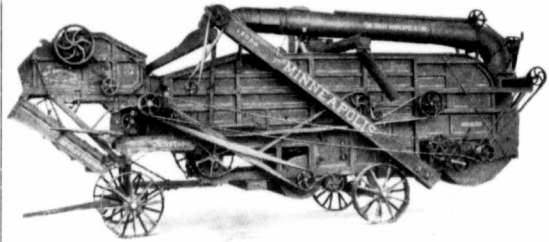
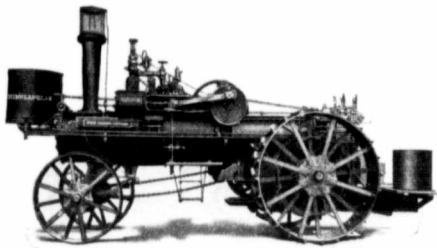
The Minneapolis Threshing Machine Co.

Hopkins, Minnesota, U.S.A.

"The Great Minneapolis Line"

Of Power Farming Machinery is The Line of Satisfaction.

Its use spells Prosperity for its Owners and promotes their Health and Happiness.



Plow
Deep

Plow
Cheap

Sow
Wheat

Sow a
Heap

He Bought a "Minneapolis" Outfit, was Satisfied and bought another.

Go thou and do likewise!

"Satisfaction" is our watchword. Our Customers are our friends. Send for one of our "Satisfaction Booklets" and see what our Customers think of us and our goods. Our new 1915 Catalog will be ready for distribution this month and is yours for the asking.

THE MINNEAPOLIS THRESHING MACHINE CO.

30 Branches and
Distributing Agencies
in the United States.

Hopkins, Minnesota, U.S.A.

Branches and Distributing
Points in Canada:
WINNIPEG REGINA
CALGARY EDMONTON

GRAIN GRADING MACHINERY

One of the Most Useful, yet Least Appreciated of Farm Machines.

By F. G. Kranich

THERE is probably no machine for use on our farms of to-day that gets so little consideration and is so seldom, if ever mentioned, that is so much avoided in advertising matter, in catalogs, encyclopædias and text books pertaining to agriculture as is this simple and inexpensive machine, the grain grader, or the fanning mill, both serving nearly the same purpose.

There is no machine for farm use which will pay for itself in so short a time as this one. The additional crop raised where this machine has been used will more than pay its original cost the first year, yes, even from three to ten times its cost.

There are four essentials to all crop production—seed, soil, weather and market. These four factors enter into all farming and are probably most important. Of these the farmer has absolutely under his control two, and in a measure he can have his soil conditions such that even drought will not affect his crops as much as though no attention had been paid to this point. Proper drainage will also help him to get better control of weather conditions.

It is the seed, however, that we are most concerned with now. No matter how good the soil and its tillage, or how conducive to growth the weather may be, or how great the demand for the product, the results from the farm are mostly influenced by the seed. Herein lies the greatest factor. Seeds invariably produce their like. No large plump kernels of grain ever grew from weak, small, shriveled seeds.

To fill the seed box of the grain drill with seed shoveled from the bin just as it was delivered from the thresher is common practice on our farms to-day.

Fig. 1 shows a fair sample of what this means—small, shriveled, shrunken, broken, weedy, chaffy grain, much of which will never grow, more of which will not mature, and that which does mature will be poor. It cannot be otherwise.

Fig. 2 shows how the grain from this same thresher appears after being run through a grading and cleaning machine. The result of planting the graded grain as compared with the ungraded is very apparent.

There are usually from four to six stalks of wheat grown from one kernel. On each stalk are from eighteen to twenty-eight kernels. In other words each kernel of wheat planted, if perfect, will

yield from seventy-five to one hundred and fifty kernels. Perhaps a hundred kernels would be a fair average. Each poor or blighted kernel put into the ground, therefore, represents a loss of about one hundred kernels at harvest time.

The average bushel of wheat after being graded properly into good sound kernels only, will contain approximately fifty-seven pounds. The three pounds are small, shrunken, cracked kernels, weeds and trash. This is not at all unusual. Frequently much more is found, for very few threshers do perfect work. This is apparent by the dockage at the elevator when deliveries are made.

There are about 14,500 kernels of wheat in a pound*. This

make the astounding figure of three hundred bushels.

Even allowing that this small, shrunken seed did yield some grain which it surely would, probably forty or fifty per cent—no more. Even at fifty per cent the amount, with wheat at 90 cents per bushel, would be \$135 for forty acres, which would represent a total loss. Two hundred dollars would better represent this loss. Added to this is the valuable space taken up on the farm by this useless seed, the care required to plow, harrow and cultivate the land, the time required to run over it with the seeder and the binder. Then, too, most of the bad weed seeds, which are sown with ungraded grain, grow, with the result that



Fig. 1

Fig. 2

means that the three pounds of unit trash from the bushel, if planted, would be about 65,250 kernels for the planting of one acre. These will not grow and properly mature. They are not hardy and strong enough to withstand the cold, the drought, the pests and so on. That means that these are practically lost.

Now then, had these been good, sound, plump kernels it means that each one would probably have produced about a hundred kernels, or 6,525,000. At 14,500 kernels per pound gives us 450 pounds, or seven and one-half bushels. This means that these seven and one-half bushels per acre would be a loss to the farmer. In other words it means a difference of seven and one-half bushels to the farmer one way or the other for this one acre only. A forty-acre tract would

these weeds multiply, and the poor grain seeds produce their like—poor grain, and the elevator man will dock more and more. Eventually the grain will run out entirely.

It represents the difference between doing things well or poorly, to increase yields and promote agriculture or reduce yields, produce bad crops, poor grain and a depleted farm.

One authority on agriculture in Canada has made the statement that over one million bushels, about one thousand carloads of screenings were removed at the elevator at Fort William one fall, which would not realize the cost of freight to that point.

Prof. A. C. Zavitz, of Guelph Agricultural College, made many tests with grain grader for seed. Here are a few figures which show the advantages made possible by grading the grain:

| | Graded Bus. per acre. | Ungraded Bus. per acre. | Increase per cent. |
|-----------------|-----------------------------|-------------------------------|--------------------------|
| Spring Wheat... | 21.7 | 18 | 20.5 |
| Winter Wheat... | 46.9 | 40.4 | 16.0 |
| Oats | 62 | 47 | 31.9 |

With wheat at 90 cents, a field of sixty acres of spring wheat would, according to these figures, yield \$199.80, nearly \$200 more with graded grain than with the ungraded.

Sixty acres of winter wheat would mean an increase of \$351.

Sixty acres of oats at 36 cents will be an increase of \$315.

All this makes it apparent that graded grain will more than pay on any farm.

The Kansas City Experimental Station has conducted tests along these lines. The average yield of fifteen plats, of one-twentieth of an acre, in 1896 seeded with light, common and heavy oats, gained the following:

| | |
|-------------------|---------------------|
| Light Seed | 33.39 bus. per acre |
| Common Seed | 39.74 bus. per acre |
| Heavy Seed | 45.89 bus. per acre |

At about the same time similar tests were made in Ohio, which were as follows:

| | |
|------------------|---------------------|
| Light Seed | 39.69 bus. per acre |
| Mixed Seed | 41.23 bus. per acre |
| Heavy Seed | 44.76 bus. per acre |

Not alone can wheat and oats be graded and cleaned, but other grains too can be successfully handled. Barley, rye, flax, timothy, clover, alfalfa, sorghum and so on. Grains can be separated from weeds, such as cockle, wild oats, mustard, king bead, chess, etc.

Added to the advantage of grading and cleaning seeds for seeding, is the advantage of cleaning the grain for market. To save dockage at the elevator is important. Besides not being docked is the advantage of having the screening, broken and small grains to use as feed.

Attachments in the way of sieves are supplied so corn can be graded for planting. For corn to be used in an edge-drop planter, the graded kernels will usually drop the required number in each hill, ninety-five to ninety-eight times out of an hundred, whereas ungraded kernels will drop the required number from fifty to sixty times out of an hundred.

On almost any farm in the corn belt the increased yield due to properly graded corn will amount to about seven bushels an acre. On a sixty-acre patch of corn this alone, with corn at 35 cents per bushel, will amount to nearly \$150, enough to almost buy three grading machines.

Many of these cleaning and

Continued on page 26

Send Your Name Now for a New 1915 Avery Catalog

THE NEW 1915 AVERY CATALOGS will soon be ready. We put a lot of work on our new catalogs each year. We endeavor to make them more attractive. We work especially hard on the descriptions and illustrations to make them more complete and plain.

Our 1915 Catalog Covers will be printed by the newest printing method known and each catalog cover will show an actual field scene with the machines in natural colors. You will see by the illustrations here that we have unusually attractive scenes. But just think how much more attractive they will be with everything in natural colors.

In these catalogs you will find the most complete descriptions and most detailed illustrations found in any catalog. You will find copies of the Avery guarantees which are the strongest given by any company. You will find a letter from a man who made a razor out of an Avery Jumbo Tool Steel Tooth and shaved himself before the crowd at the North Dakota State Fair. You will find a list of the field tests threshing on canvas made with Avery Separators to determine their grain saving ability. You will find full information about the new Avery Straight Flue Single Cylinder Steam Engines about which one owner writes: "It is easy steaming and easy to fire and keep up. This engine with the automatic fire door, rocker grates, automatic coupler and the new improved heater makes it one of the most up-to-date engines on the market." You will find new facts about why Tractor Farming means bigger crops, less expense and easier work, and how the Avery Tractor and Plow have made the most wonderful record ever made among large farm machines.

It always pays to read the new Avery Catalogs. They always describe new and important improvements. Use the coupon below or write a letter or postal, ask for the catalogs you want and say what machinery, if any, you are likely to be in the market for the coming year. Get your name in for one of the first catalogs that comes from the press. There are four separate catalogs—Separator, Steam Engine, Tractor and Plow, and Truck. Ask for the ones you want. Write to-day. Address

AVERY COMPANY, 675 Iowa St., Peoria, Ill.
Canadian Avery Co., Ltd.
 Western Canadian Distributors
WINNIPEG - REGINA - CALGARY

Which of these New Avery 1915 Catalogs do you want to see?

(Check the circles before the ones you want)

- Tractor and Plow.
- Steam Engine
- Separator
- Motor Truck

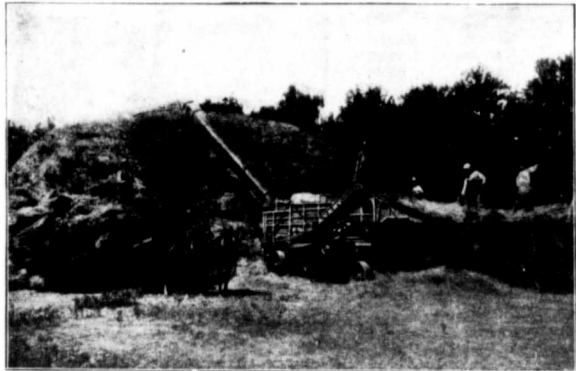
Do you expect to be in the market this year?

- Yes
- Don't know yet
- No

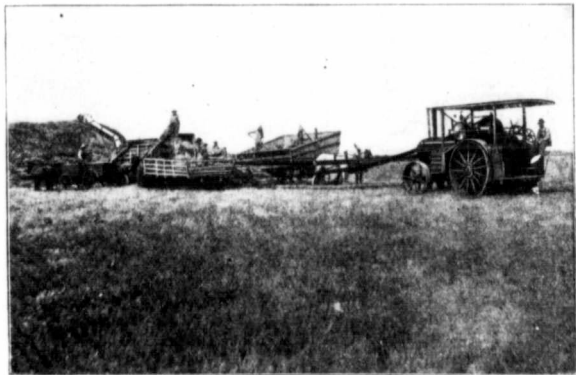
Remarks.....

Name.....

Address.....



Cover Scene on Avery 1915 Separator Catalog.

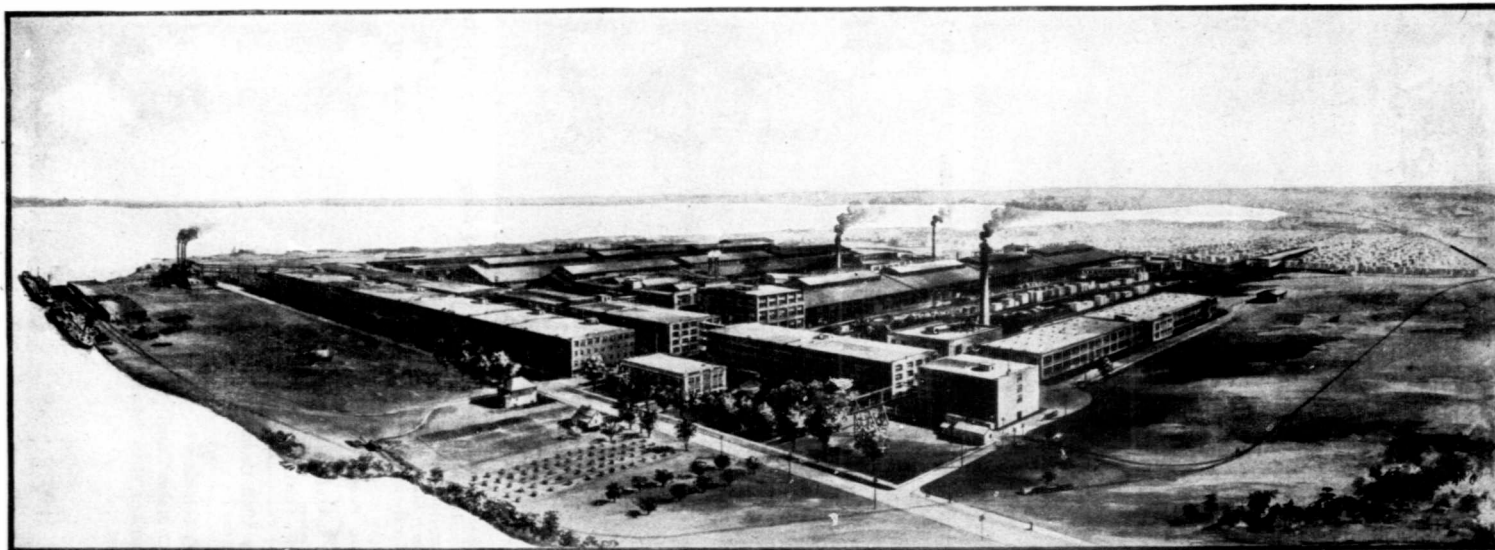


Cover Scene on Avery 1915 Steam Engine Catalog.



Cover Scene on Avery 1915 Tractor and Plow Catalog.

Hamilton, Ontario, Works of The International Harvester Company of Canada, Limited



The Largest Agricultural Plant in the British Empire

Producing a full line of farm implements, ranging from grain binders to peg tooth harrows, furnishing the farmers of Canada the most modern and up-to-date machines that can be made.

Canadian Fields Keep Canadian Factory Wheels Turning

Our agricultural possibilities are so great that the present development of the country, while wonderful in the rapidity with which it has been accomplished, is hardly the beginning of what Canada will eventually do. The secret of Canada's success, future as well as present, lies in team work between the men who till the fields and the men who work in Canadian factories to produce the machines necessary to make Canadian farming practical and profitable. Canadian farms and Canadian factories are our two greatest assets. Team work—co-operation between the farms and factories, is our best assurance of permanent and continued prosperity. The factory workers say to the farmers, "Feed us and make us prosperous and we will make it possible for you to feed the world." Canada's great future stands out distinct in the vision of such a relation between factory and field.

International Harvester Company of Canada, Ltd.

BRANCH HOUSES

At Brandon, Calgary, Edmonton, Estevan, Hamilton, Lethbridge, London, Montreal,
N. Battleford, Ottawa, Quebec, Regina, Saskatoon, St. John, Winnipeg, Yorkton





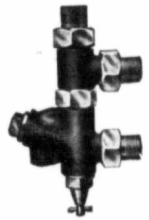
THE INJECTOR

THAT HAS NEVER OCCASIONED A SINGLE DISAPPOINTMENT :
THE INJECTOR THAT CAN BE DEPENDED UPON UNDER EVERY
CONDITION TO GIVE REGULAR AND PERFECT SERVICE
IS THE



DESMOND MODEL "U"

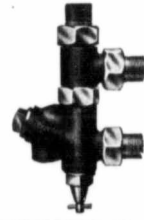
Thousands of practical engineers testify to the excellence and reliability of this injector. It needs no "special connections," or "rights and lefts," "fronts and backs." The Model "U" will fit all connections. The two-piece body connected with a Union Nut makes it adjustable. Loosen the nut, turn connections to meet piping at the most convenient angle. No need to wait till the dealer can secure an injector to fit your piping — if he has but one Model "U" in stock it will fill the bill perfectly. **Apart from this EXCLUSIVE FEATURE it has no superior.**



Model "U" is Flexible. It will do Everything an Injector can do.

Every Injector is thoroughly tested before leaving factory and carries an unqualified guarantee to do perfect work under any test. If your dealer cannot supply you write us direct

DESMOND STEPHAN MFG. CO. URBANA OHIO



You saw this advertisement in this magazine. Don't forget to say so when writing.

Grain Grading Machinery

Continued from page 22

grading machines will handle as much as a thousand bushels of wheat a day, or in ten hours. A machine of this sort can be operated by a gas engine of about one-horse power. Many are run by hand, so light running are they.

The great range of these machines is remarkable. To give a list of what they will do would cover pages. Better say what they will not do.

They successfully remove oats, rye, barley, cackle, garlic, wild peas, most weed, chess, cheat and so on from wheat. The same weeds are successfully removed from oats, barley and rye.

Corn can be graded to size for seed. Kafir corn and sorghum too can be graded and cleaned.

Peas and beans of all sorts can be graded to size.

Of the smaller seeds, clover is one of the most difficult to clean, yet these machines will remove plantain, dodder, timothy, etc. Alfalfa, alsike, lespedezia, timothy, blue grass, etc., can be cleaned.

Pigeon grass, smart weed and mustard can be separated from flax.

Even cranberries, peanuts and onion sets are not uncommonly run through one of these machines to grade them to size.

On the face of all this there is a scarcity of these machines on our farms to-day. The only good reason apparently is that the value of this machine isn't understood. A better understanding of the value of this kind of machine to the farmer will soon be apparent. The trend of our times is toward smaller farms and bigger crops, bigger production per acre. This means larger profits with no more expenditure of effort in the way of work. These larger yields are only going to come through the more common use of cleaning and grading machinery, and the day is not far off when our farmers will wake up to the real benefits derived from this class of machines which will mean maximum yields with greater returns for the work on the farm.

"809,726 kernels in a bushel. 'Thresher World' contest, 1903.

A Splendid Chance to Learn Traction Engineering This Winter

A SCHOOL in gas traction engineering will be held at the Winnipeg branch of the Sawyer-Massey Co. during the months of December, January and February. This school has

been organized by Messrs. Wade and Arnold who are Sawyer-Massey Co. experts, and Mr. Campbell from the Rumely Co.'s staff, under the name Canadian School of Traction Engineering.

The purpose of the school is primarily to teach gas engineering but automobile and steam engineering will be taught to students who desire such instruction. We understand that, although this school is being held at the Sawyer-Massey branch, it is not the intention to teach the operation of Sawyer-Massey machinery particularly. Engineering will be taught without any particular attention being given to any one make of engine. There will be a large number of engines of various types and makes on hand when the school opens. The shop in which the school will be held is well equipped with machinery and tools for rebuilding and repairing and is also well heated and lighted.

The men who will be in charge of the school are all thoroughly practical men who have made good as experts in the field. They are all known to us personally and we therefore know whereof we speak.

Mr. A. C. Campbell, who has been selected as principal of the school, is of course already well known to our readers, having contributed quite a number of engi-

neering articles to this paper. The recent articles on Gas Engine Troubles will still be fresh in your memory. During the past two winters he was very successful as Principal of Travelling Schools, sent out by The Indiana School of Traction Engineering, conducting schools at a large number of the Rumely Products Co. branches in the Northern States and Canada.

Mr. J. H. Wade, instructor in steam engineering and automobiles, is a thoroughly practical and efficient steam and gas engine expert. He was chief instructor at the Sawyer-Massey Company's gas engine school held at Winnipeg last March.

Mr. H. A. Arnold, who will instruct on gas engines and separators, has spent a number of years on the expert staff of Sawyer-Massey Company. He also spent five years operating plowing and threshing machinery. He was proven to be a good instructor at the Sawyer-Massey school last March.

With three such men as these in charge of the school and having such a splendid equipment at their disposal, the instruction should be of a very high order indeed.

We would advise all parties interested to look up their advertisement on another page of this issue and to write for their circular.

The Automobile on the Farm

From being a plaything for the rich the automobile has become a safe, practical, and very useful implement for the farmer. If there is any man who can make the auto a utility machine it is the farmer. If there is anyone who needs an auto for pleasure more than anyone else it is the farmer. By its distance is shortened and many hours of time saved. Comparatively few farmers have kept a team for driving only. In the busy seasons the horses are all pressed into service in the fields and the family do not go away from the farm except as a necessity. They don't like to drive a jaded team nor can they take a team from the field for a pleasure ride.

The auto brings farmers closer together, enlarges the neighborhood, promotes social intercourse, and unites the farm and the country in a more complete way and is wiping out the lines of distinction between country folk and town folk.

As a rule the farmer is a more careful driver than the city man and of consequence his repair bills are very much less. Most of the minor repairs the farmer will make himself.

The possession of an auto gives added power to a man just as do good clothing and the appearance of well being. It is said that clothes do not make a man but that is only partially true. There is some psychological factor that gives a man more power and personality when he feels he is well dressed. The possession of an auto has much the same effect on the farmer and his family.

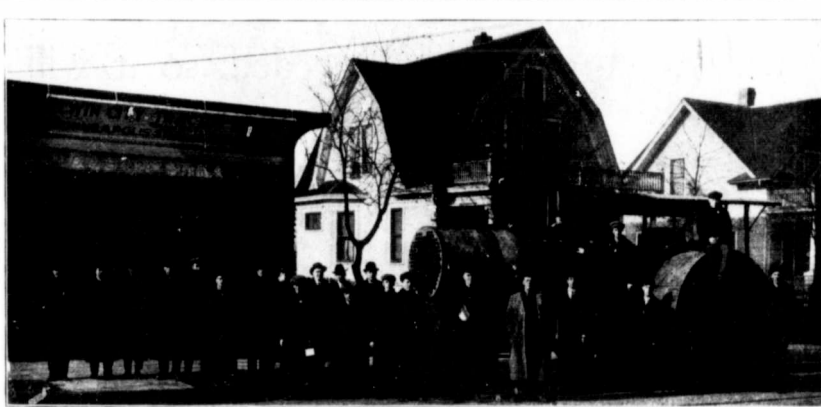
It is said by some croakers that when a farmer gets an auto he spends his time gadding about the country and neglects his work. The facts do not bear out the croak. The man who will do that is usually found to be no good in the first place. When the farmer has to be tied to his job he is a mighty poor specimen of a farmer.

Rural sociologists who are trying to build up good wholesome country community interest should not overlook the part the auto will play in their plans. The units of social activity will be very much enlarged and the horizon of the farmer very much widened. His experience will become fuller and richer.

May the time speedily come when every farmer may own an automobile.



Success in business is held by the same tenure as success in public life, at the cost of perpetual challenge to all comers.



Six-cylinder TWIN CITY "60" Oil Tractor, and class of Students at the TWIN CITY Tractor School.

THE TWIN CITY TRACTOR

Five sizes of these machines are now manufactured ranging from 10 to 60 tractive horse power. They are equipped with superb heavy duty four and six cylinder motors, with strong girder frames, and with the highest grade of workmanship and material that is usually found in the best automobiles. The motors of these machines are equipped to burn kerosene, gasoline, or distillate. They are thoroughly cooled with forced water circulation and are lubricated by force feed oils which carry the oil direct to bearings and cylinders through separate copper tubes.

THE TRACTOR SCHOOL

This school is conducted at the plant of the Minneapolis Steel & Machinery Co., Minneapolis, Minn., and instruction is given in the expert operation of the TWIN CITY Tractor and of the BULL Tractor, both of which are built in the shops of this company.

This school provides one of the most complete courses of instruction in tractor operation, and ensures owners an opportunity of securing the best operators for their machines. **School Terms open at Minneapolis January 5, February 8, and March 15, 1915, and each term contains 30 days. The tuition is \$15.**

For catalog of Tractors and of the Tractor School, address:

Minneapolis Steel & Machinery Co.

2854 MINNEHAHA AVENUE, MINNEAPOLIS, MINNESOTA, U.S.A.

You saw this advertisement in this magazine. Don't forget to say so when writing.

NOTICE The William Galloway Co. Ltd. of Canada

Now carry the Famous Galloway Line of gasoline engines, cream separators, manure spreaders and other farm machinery and merchandise in stock at Winnipeg to take care of their large Canadian business. Remember, all Galloway Made Machines are sold direct to the consumer at factory, wholesale prices. You are consulting your own best interests when you investigate our machines and direct from factory, one-profit plan of selling before you buy any other style or make. We have thousands of satisfied customers in Canada. Galloway machines are always sold at the lowest prices backed by the strongest guarantees and on the most liberal terms. You take no risk whatever when you buy on our liberal plan. Our machines must please or we will refund your money with freight paid both ways. Write us (Get familiar with our money saving plan. Read this advertisement. Then send for our catalogue showing our entire line of merchandise for Canada's best farmers.

Save \$50 to \$300 on Engines
Our new low engine prices are the lowest. Every Galloway engine is sold on 30 days' trial, backed by 3 year guarantee. They must please you or you can return them and we will refund your money and pay all the freight. You take no risk. Made in sizes from 1.5 to 15 H. P. Either stationary or mounted on trucks or equipped with wood sawing attachment. Send for catalogue.

Save \$35 to \$50 on Spreaders
Galloway Manure Spreaders have always been popular in Canada. Now, we can supply you right direct out of Winnipeg at a tremendous saving to you. Don't buy any other style or make until you get our new low prices. Nine different styles and sizes to select from. Attachment spreaders that will fit any size farm truck, complete spreaders, etc. Get Free Catalogue.

Save \$35 to \$50 on Separators
The new Galloway Sanitary is the most modern, most sanitary and closest skimming cream separator on the market. Gear run, easy to clean. A genuine Mechanical Marvel. The equal of any machine selling at twice our new, low prices. We guarantee it. Send for one. Give it a good 30 Day Working Test at our risk. Write for catalogue.

Buy Direct from the Actual Manufacturer
And save all middlemen's profits. Galloway machines are made right in our own factory and sold direct to you at wholesale prices. They are high quality, proven machines. Stop paying tribute to "Trusts" and "Combinations." Buy direct and save money. Let me show you what it means to you to buy on my direct from factory, money saving plan.

WRITE ME TODAY FOR FREE CATALOG AND OFFER
It only costs you a one-cent postal to get my catalogue. No postage to pay. No obligation to buy. Yes Sir! When you send for my catalogue, I am going to make you the most liberal, co-operative profit-sharing offer you ever heard of in your life. Write me today.

Wm. Galloway Co. of Canada Ltd. Dept. Winnipeg, Man.

30 Days Free Trial — 5 Year Guarantee

You saw this advertisement in this magazine. Don't forget to say so when writing.

As Agriculture Preceded, so it will Outlast all other Professions

The following is from a speech delivered to the Hop Growers of New York State by Secretary Frank A. Tierney, and as it is such an eloquent statement of the farming profession in any of its aspects we feel it ought to be passed on to our readers.—Ed.

AFTER all, the word "farmer" is the title of an occupation and not of a class. Only those who have never got closer to the farm than a car window believe that there is any substantial difference between the farmer and the rest of the world. The comic supplement farmer who carries a carpet bag and goes in for gold bricks, is like the comic supplement Irishman who bores a hole in the bottom of a leaky boat to let out the water—he only exists on paper. The real farmer, the man who spends his working hours wrestling its bounty from nature, is much the same as other men.

I remember an old school teacher of mine who was the best disciplinarian I ever knew because he lashed unruly pupils with his tongue and not with his birch. On one occasion he stated his attitude towards his work in a way I have never forgotten. "Boys," he said, "the trouble with you is that you think I am a school teacher. You're misatken. I'm not a school teacher—I'm more than that. I'm a man who teaches school."

And because I lived among farmers, man and boy, long enough to look at things from the farmer's angle, I know that the farmer is more than a farmer—he's a man who farms the soil. In short, so far as I have been able to discover, the only difference between the man who tills the soil and other men is that the farmer knows precisely where the next meal is coming from and other men only conjecture.

Charles Sumner said of the farmer, "Dependent upon nature, he learns to be independent of man." And certainly the husbandman whose table is loaded with the ripe fruits of his own broad acres, who acknowledges no master save the seasons, and who depends upon no other servitor than his own right arm, faces life in broader, healthier, surer fashion than the man who labors behind closed doors.

One lover of open spaces has described the city dweller's dependence upon others with wit and wisdom.

"Light, air, fuel and water," says this observer, "the products

of Nature, are fed to him through tubes; vacuum and gravity are harnessed for his light housekeeping. The municipality, of which he is a member in good standing, disposes of his waste paper and potato peelings; regulates noise and smell; inspects his food; guarantees him so many cubic feet of air to sleep in, a minimum bacterial count of 50,000 to the cubic centimeter in his morning's milk, and a ladder in case of fire; assumes the supervision of the eyes, teeth and intellect of his children; polices him, sweeps his streets, counts him at birth, marriage and death and at the polls, fumigates him, makes music for him in the parks, and keeps him off the grass. He buys bread

murabi. The doctor finds inspiration in the antiquity of a profession which still dedicates itself to human service by the oath of the Greek Hippocrates. But the ancient claims of doctor and lawyer both fade before that of the profession which Adam learned just outside the Garden of Eden.

As surely as agriculture preceded all other professions, so it must outlast them all. The doctors of to-day are stamping out disease with a zeal which in time may make the doctor himself a revered but unnecessary member of society. Between the Title Companies and the Workmen's Compensation Law the lawyer is finding his field of

prosperity and progress. He sat in judgment on the lawyers who framed the Constitution. He followed Daniel Boone over the Alleghenies. He was with Grant at Gettysburg. He prayed for Lincoln's vision of a re-united country. He has watched the cities of a continent rise, like magic, on the sure foundation of his outgrown farms. He has battled with rain and frost, with storm and drouth, that the toilers in these cities might be fed. And to-day he is girding his loins to solve the problem of limited acres and unlimited population, the problem which has been crystalized in what we call the high cost of living.

A striking evidence of the tremendous force exerted by the farmer in the affairs of America has been granted to the nation in the months just passed. We were told that lean times were upon us. We were informed that our industries were feeling the economic strains of change, that capital was apprehensive, that labor was anxious. And, just as we began to foresee bread lines in our cities, and cobwebs on our factories, the American farmer spoke.

He spoke for the fifty billions of dollars represented by America's farms. He spoke for the valleys of New York and the plains of Illinois, for the slopes of Montana and the foot hills of California. He spoke for the bounty of Nature and for the industry of man. And, dispelling all our fears, he gladdened the soul of the Nation with his tale of a wonderful harvest sufficient to cover the continent with a mantle of yellow gold.

The American farmer spoke and, reassured, industry confidently turned back to its looms, labor returned to its toil with hope renewed. For there is no place for doubt or distress in this broad land of ours so long as Nature yields a just return to the energy, thrift and intelligence of America's farmers. The house with larder well-stocked can face a winter's siege with sure content. The Nation with its food supply assured is fit to play its part in the commercial battles of the modern world.

Because of his place in the Nation's life the farmer deserves whatever assistance enlightened government can give to his labors. Numerically the weakest,

Continued on page 58



Canada's Crop Wizard: Seager Wheeler "manipulating" his "Marquis."

by the pound, potatoes by the quart, eggs by the ounce, and milk, signed, sealed and delivered in glass."

The farmer, on the other hand, gets his light from the sun, his air from the untrammelled breeze, his fuel from the forests, and his water from the crystal spring. The lark makes music for him, and only sickness or accident can keep him off the grass. He measures his bread by his waving wheat fields, his potatoes by serried rows of white blossoms, his eggs by the industrious fowls the housewife feeds, and his milk by the sleek cattle in his pastures.

It is fitting that the farmer should possess this independence. He is entitled to it by the dignity and the authority of a profession which is at once the oldest and the most necessary in the world. The lawyer can point to the venerable dignity of a calling dating back to the gray-beards who framed the code of Ham-

activity more and more circumscribed. But so long as the human heart warms at the sound of the dinner bell the farmer is assured that his professional activities will be demanded by a constantly increasing host of clients.

The energy and initiative of America has raised its industries to a point where it has come to be regarded as a commercial, rather than an agricultural, nation. But in spite of the industries which have drained America's farms by attracting young men into occupations where the rewards are more spectacular, the farms of America represent a bulwark of power and strength to which the nation ever turns in its times of trial.

From the hour when "the embattled farmer" of the Revolution fired the "shot heard round the world" the hard-working, clear-thinking farmer has been the main-stay of the country's

Greetings *from the Home of the "Starved Rooster"* to Our Friends, the Threshermen and Farm Power Users . . .



We are glad to have this opportunity to extend to our friends, the Threshermen and Farm Power Users of this great land, the Season's Greetings. We wish each and every one of you a Merry Christmas and a Happy and Prosperous New Year. May Health and Prosperity attend you throughout 1915.

You know what amount of grain was produced in your neighborhood or on your threshing run this past season.

You know whether it was profitable for you to be in position to operate your machinery continuously from morning till night, or whether you can afford to lose hours and possibly days because of breaks in your machinery.

You know that when crops are abundant, it is all the more important for you to have machinery that will handle a large amount of grain for every hour in the day.

You know the value of a threshing machine of large capacity, of simple construction, and one that required but few repairs.

You know the value of an engine with a reputation for economy in the use of fuel and water.

You know that an engine, to develop its power, must be backed up by a boiler of proper dimensions to furnish ample steam for the cylinder mounted on the boiler. Size of cylinder alone does not determine the strength of the engine.

Gold medals do not determine alone the reputation or record of the engine.

If you are using gasoline power, you will be interested in an engine with a reputation not enjoyed by any other gasoline engine on the market.

You will be interested in the final report made by competent judges regarding economy and power development in a world's contest.

If you are using a sawmill, you will be interested in one of simple construction, convenient to handle, large in capacity and without numerous complicated parts to be causing frequent trouble.

If you are in a section of the country where clover or alfalfa is used, you are undoubtedly familiar with a "Matchless" huller. If you have been denied this privilege, you will certainly want to add a "Matchless" huller to your line of machinery for next year.

In your interests we ask permission to bring your attention to a line of machinery that meets the above mentioned conditions, to which an army of operators are ready to testify. This line of machinery is built by a company entering its fiftieth year of business. Its reputation for integrity, honest dealings with its customers and for building first class machinery, is very firmly established.

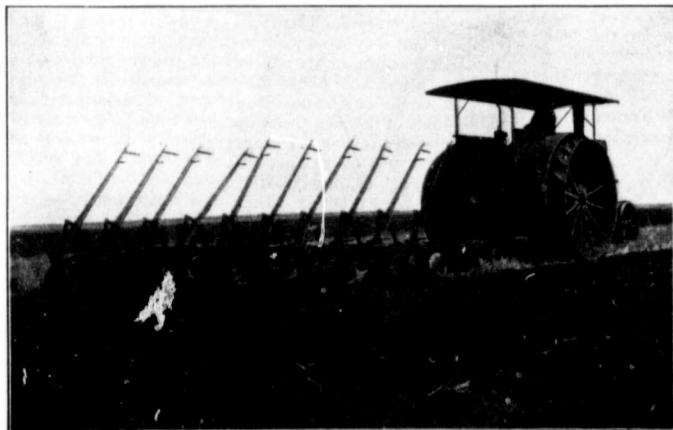
The Aultman & Taylor Machinery Company has been in Business for Forty-nine Years, has always been Absolutely Independent, is Not Owned or Controlled by any Combination.

Our Catalog is yours for the asking.

Use the Coupon below or drop us a post card.

We have something of interest for you.

Communicate at once.



Start the New Year Right

Mail this To-day!

Please send me Catalogs and other information of

- Gas Tractor Separator
- Steam Tractor Huller
- Saw Mill Bean Thresher

Name

P.O. Prov.

An Interesting Experience with Bucking Plows

BY A "VICTIM."

FOR the benefit of traction plowmen, the writer offers the following experiences which he had with an engine gang plow under unusual circumstances. For obvious reasons names are withheld, but the writer was one of the party to the experiment.

An expert who was in the employ of one of the large machine companies doing business in Western Canada, not being satisfied with the conditions under which he was compelled to work, left the employ of the company in the spring. He was employed by the owner of a plowing outfit in southern Saskatchewan as engineer. The outfit had just been purchased from the company by whom the expert had previously been employed, and he was therefore quite familiar with both engine and plows. It may also be



Fig. 1

mentioned here that he had previously spent four seasons running plowing engines on the level prairies of Manitoba and very naturally thought that he knew very nearly all there was to know about engine plowing. He was soon to find out that he still had a lot to learn.

The soil in this particular part of the country is very heavy and the sod very tough. It is also quite stony in places and very rough in others. The outfit, which consisted of a 15.30 kerosene engine and a five-furrow plow, was started out on custom plowing and the first three jobs were completed successfully, a fairly good job of plowing being done and the farmers were well satisfied. It was found that only four plows could be used except where the land was fairly level. On pulling on to the fourth job, the land was found to be very heavy in the lower parts of the field and lighter on the hillsides. It also contained a lot of small stones in places and there was a fairly heavy growth of old grass. The engineer wanted to burn off the grass but the farmer refused to allow him to do so as he claimed that the land would be dried out by so doing. Now the trouble commenced; the plows would not stay in the ground, a plow would hit a stone and jump

out of the ground then just slide along on top of the sod. The engineer tried to adjust the plows by tilting them to give them "suck" (see fig. 1).

The plows stayed in the ground fairly well after this, but the job of plowing was awful. The plows simply would not stay in line. Sometimes the whole plow would crowd away from the furrow and then would spread apart, cutting sometimes 18 or 20 inches instead of 14 inches. A change was made from the crotch chair hitch sent out with the plows to the cross chain hitch (see figs. II and III). This held the plow as a whole better, but of course had no effect on the spreading.

The following morning a complete set of new shares was put on. They had never been used before and had simply been drawn out by the blacksmith, the shares which had been taken off were taken to town by the owner of the outfit, with the engineer's instructions to the blacksmith that he give them at least one-half inch of "suck" on the points (see fig. IV). When the owner of the outfit had taken the shares to the blacksmith, he met in town the branch manager of the firm from whom he had bought his machine, the collection manager, a plow expert and the designer of the plow. They were travelling through the country studying field conditions. They asked the owner how he was getting along and he told them of the trouble.

The branch manager, the collection manager and the plow expert immediately secured an automobile and started for the outfit, assuring the owner that they would adjust the plows in a few minutes. The owner stayed in town, waiting for the shares and the plow designer also remained in town. Together they went into the blacksmith shop and found that the blacksmith had

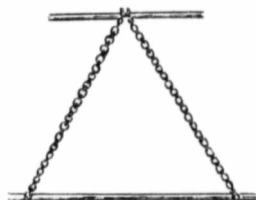


Fig. 2

just finished one share, doing his work according to the engineer's instructions. The plow designer looked at the share and said "Tut, tut! that will never do; these shares must be beaten out perfectly level," and he proceeded to

show the blacksmith how they should be done. The blacksmith then sharpened all the shares according to the instructions of the plow designer.

In the meantime the party which left in auto arrived at the field where the engineer was

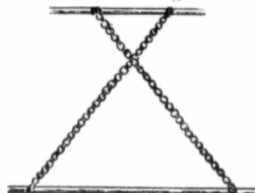


Fig. 3

plowing, or rather trying to plow alone. The branch manager, who knew him, hailed him by name and asked him if he was having trouble with the plows. He replied that he was having lots of trouble; to which the manager replied "Oh, well, we will fix you up in a few minutes. The engineer turned the outfit around at the end of the field and stopped the motor. Throwing a number of tools on the plow platform, he remarked: "Hop to it, boys. There's the tools," and he proceeded to tune up his engine, determined that when they gave him the word to go he would be ready and that the engine would be running at its best. Of course he kept an eye on the men at the plows to see what they were doing. He saw them line up the plows according to the usual practice and space them all the proper distance apart he saw them line up the rolling coulters and level up the plows and he smiled.

They next paid attention to the hitch, adjusting the chains but leaving them crossed. Then they remarked that they were ready to plow and the engineer started the engine. It was now about 9.30. As soon as the outfit started up the field two of the men threw up the plow levers, raising the gauge wheels clear off the sod but the plows stayed on top, barely scratching the ground. They tried standing on the beams but with no better result. After travelling for 25 or 30 yards they called on the engineer to stop. They gave the plows a little "suck" and tried again but with no better result. From that time until noon it was just a series of starts and stops and two rounds were completed on a half-mile furrow in 2½ hours. During all this time the engine was kept running. On the last half round the plows were adjusted much the

same as the engineer had had them before and the job was also about the same.

They admitted themselves beaten by sending the collection manager back to town for the designer and by remarking that he would fix the plows in a few minutes when he arrived.

The plow designer arrived about 1 p.m. and proceeded to fix up the plows. The owner of the outfit had arrived before noon, bringing with him the shares which were sharpened according to the directions of the plow designer, but, acting on the advice of the engineer, did not mention the fact that he had them. The designer hammered out the edges of the shares which were on the plow and made practically the same adjustments which the other men had made in the forenoon. Added to this, he changed the hitch from "cross chain" to "crotch chain." When the outfit was started up the furrow the result was just the same as it had been on the previous occasion, the plows simply would not enter the ground and when tilted the effect of the land side was lost and the plows spread as before.

The performance was now much the same as it had been in the forenoon, just a series of



Fig. 4

starts and stops, until the outfit had reached the end of the field and returned about half way back. The job which was being done was such as to cause the farmer to remark to the plow designer that he did not want any pig troughs made in his field as he usually fed his pigs in the yard. The designer said that he could not do good work with the shares which were on the plows. The owner then spoke up and told him that he had in the field the shares which had been sharpened that morning. The shares were then changed and another start made. This time the plows stayed in the ground a little better but would not stay in line.

The entire plow would crowd away from the furrow and the plows would spread apart. Three coulters had been broken during the day and as many more bent, with the result that the coulters were running at all angles. A steering device was

Continued on page 42




Satisfaction and Prosperity



RUMELY power-farming machines stand for satisfaction and prosperity—work better done and greater profits.

The Rumely OilPull is unequalled for steadiness of power and ability to burn kerosene and even cheaper oil-fuels at all loads, at any kind of work—it has friends everywhere. The Rumely GasPull is a handy, light weight gasoline tractor—an all round tractor for the average farm. The OilPull or the GasPull will save up to a dollar on every acre plowed; either will enable you to plow more acres, put your soil into better condition and plant your crops at just the right time.

Our steam threshing and plowing engines, our separators, clover hullers, husker-shredders and silage cutters are all profit makers. We have three big lines from which to select your outfit and can furnish machines of just the right size and the right type to exactly meet your requirements.

Rumely-Olds engines, Rumely-Falk engines and the Rumely corn shellers, feed mills, cream separators, balers and all such machines which our engines profitably operate, will make the work lighter for your wife and the girls, as well as for you and the boys. Get a Rumely power outfit. It will mean lessened work costs for you and increased leisure time for all the family, for years to come.

We are constantly improving our machines. We are constantly perfecting our organization. We are just as anxious and better able to take care of our machines in the field than we have ever been.

A Merry Christmas and a Happy, Prosperous New Year, is our wish to our many customers and friends, present and prospective.




Rumely Products Company

(Incorporated)

Power-Farming Machinery

Chicago

Illinois

HOME-GROWN Alfalfa seed is now one of the assured assets of Western Canada. For some time, we are told, something like half a million dollars annually have been sent out of the country to purchase Alfalfa seed. In the light of this fact we gather a little of the heroic efforts

What We Can Do With ALFALFA

what conservative outlook of the old time farmer. A plot of this description may reasonably become available for seed for at least 20 years.

It is only fair to say that the department expresses its delight with the work of the Sawyer-Massey huller that did the job of threshing, not only for saving what it believes the maximum of seed obtainable, but in delivering it is so remarkably clean and free from all foreign substances. At the moment of writing we believe the Sawyer-Massey machine is the only representative of the "huller" now in Manitoba if not the only machine of its kind in the West. Let us hope that before many days it will be as familiar a figure as the grain separator now is on the Western prairie.



Sawyer-Massey Monitor Clover Huller at work on Mr. Irvine's Farm, Neopawa, Man. threshing Alfalfa. Mr. Irvine pitching. Shows very plainly the Recleaning attachment on the left side.

cently done in its big progressive programme of which it has reason to feel so justly proud as the results of its Alfalfa experiments. There's magic in that word "Alfalfa" to every stockman wherever he comes from, and there's a world of encouragement to Western Canada in the fact that on such an extensive scale it has proved such an unqualified success wherever it has had fair treatment.

This little stock of Seed Alfalfa may well be considered priceless in the fact that it is the hardest and most vigorous strain that has been seen in this latitude; that it has been grown right here in Manitoba; that it is quite pure,

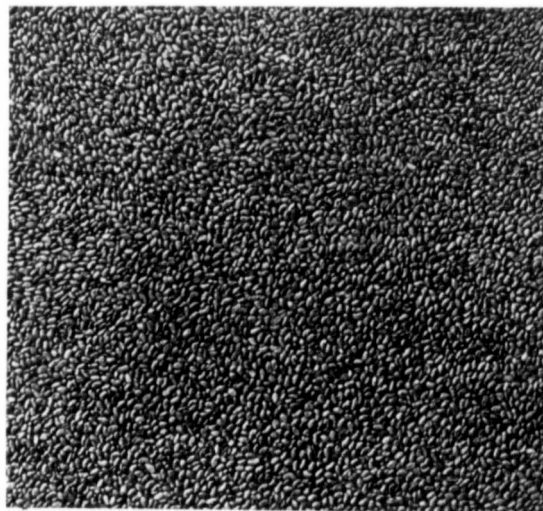
that have been put forth to grow the "King of legumes" and fodder crops, to find a type that is thoroughly adapted to the soil and conditions of the country.

The process has been slow and halting for a long time but recent successes carried on upon a generous scale over a well distributed area have established the fact that alfalfa can be made no less indigenous to Western Canada than Manitoba hard wheat.

We are glad to be able to give a very effective photographic reproduction (actual size) of a sample of the Manitoba grown Alfalfa seed to which we referred in our last issue.

This sample is taken direct from bulk just as it came from the Sawyer-Massey huller. In appearance there is nothing to be found fault with as a random specimen without any attempt whatever at hand picking or cleaning, and we are assured by Professor Bedford that its germinating strength is 94 to 98 per cent.

This fine result was obtained on the Manitoba Government Demonstration Farm of Mr. H. Irvine, Neopawa. It is grown on a plot of about six acres from seed obtained from the original grower. It was a good sample of pure "Grimm" which the department purchased at the price of \$1.05 (one dollar and five cents) a pound. It had previously been "spotted" as showing exceptional vigor in the field and in striking contrast to a sample of "Turkestan" which had been sown at same time in adjoining rows of exactly the same soil as the "Grimm." So apparent was the "survival of the fittest" here that the Turkestan was not allowed to seed but plowed under while scarcely in flower.



Manitoba-grown Alfalfa Seed
3535 pounds from six acres on farm of H. Irvine, Neopawa.
Threshed by the Sawyer-Massey Alfalfa Huller. Sample shows exactly same size and so it came from the huller.

Under the direction of Professor Bedford, the Manitoba Department of Agriculture is making extensive preparations now for an enlarged area on its Demonstration Farms to be sown to Alfalfa next spring. Something like 1,500 pounds of this pure clean seed is now in the hands of the Department, a quantity sufficient to seed about 500 acres.

This acreage, of course, may not entirely be sown, but the new fields will be well distributed among the provincial demonstration farms and the test will therefore be evenly spread over the province as every district has been impartially considered in the establishment of these farms.

There are few things which the Manitoba Department has re-

free from weed seeds and of such high germinating quality. As a crop we have no doubt it will soon make a strong appeal to the some-

We seem to be on the borderland of that time when Alfalfa will be found as plentiful in Western Canada as any of our forage crops now are in the West. It is the oldest and best friend of all our forage plants now in use. Being a perennial and capable of living longer in the soil than any other legume that has been grown under domesticated conditions, its comparative scarcity with us has always been a matter of bewilderment to agriculturists who have come among us from those countries where it is considered as necessary to the production of live stock as "the staff of life" is in our home cupboard.

We need not enlarge on the uses of Alfalfa. Every stockman knows all about it and his only difficulty seems to be in raising it, but if only the stockman would take a little pains he will find that, speaking generally, all of Canada west of the Great Lakes offers as good facilities, for growing Alfalfa as almost any portion of North America. Indeed some sanguine friends made up their minds long ago that before many years it will become the leading hay crop of the West.

But if 1,500 pounds of seed can be taken in one season off six acres, does it not strike home that it is well worth considering alone

Continued on page 43



Sawyer-Massey Monitor Clover Huller at work on Mr. Irvine's Farm, Neopawa, Man. F. S. Bailey feeding.



Eastern Excursions



December 1st to 31st

First Class Round Trip Fares From WINNIPEG To

| | | | |
|--|---|--------------------|----------------|
| 2 Express Trains Daily 8.10 to Toronto and Montreal 21.10 to Toronto | } | TORONTO Territory | \$40.00 |
| | | MONTREAL Territory | \$45.00 |
| | | ST. JOHN Territory | \$59.30 |
| | | HALIFAX Territory | \$63.45 |

Corresponding fares from other points and to all stations in **ONTARIO, QUEBEC AND MARITIME PROVINCES.** Stopovers east of Fort William. Return limit, 3 months.

Pacific Coast Excursions

Tickets on Sale:

Dec. 10, 11, 12, Jan. 15, 16, 17, 18, Feb. 9, 10, 11

First Class Round Trip Fares from Winnipeg

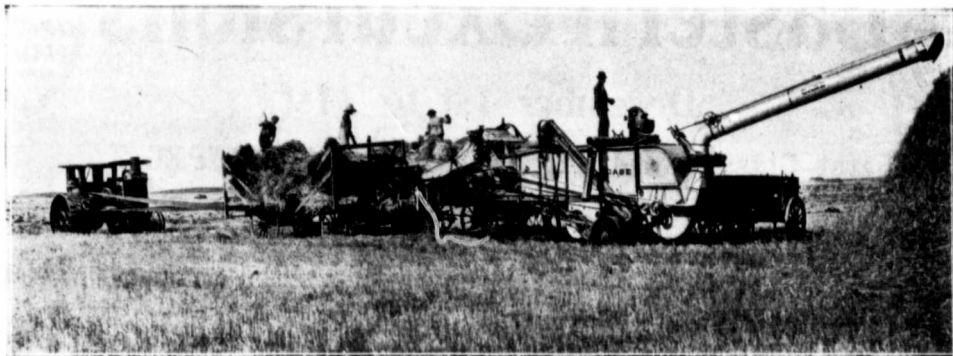
| | | | |
|--|---|--------------|----------------|
| 2 Express Trains Daily Leaving at 14.55 and 22.35 | } | To VANCOUVER | \$50.00 |
| | | VICTORIA | |
| | | WESTMINSTER | |

Corresponding fares from other points. Tickets good going for 15 days. Return limit, April 30, 1915. Stopovers within going and returning limits.

**Standard Sleepers, Tourist Sleepers
and Dining Cars on All Trains**

For further information, tickets and sleeping car reservations, apply to any Canadian Pacific Ticket Agent, or to

- | | |
|---|--|
| A. C. SHAW, General Pass. Agent Winnipeg, Man. | J. E. PROCTOR, District Pass. Agent Regina, Sask. |
| J. A. McDONALD, District Pass. Agent Brandon, Man. | R. DAWSON, District Pass. Agent Calgary, Alta. |



CASE in Oklahoma



Why You Should Thresh With CASE

Safety First! Have you ever thought of this idea as applicable to the purchase of threshing machinery?

You have heard of many whose money was tied up in wooden machines and in the twinkling of an eye their investment was gone in flames. In the state of Washington millions of dollars were this year lost through fires from smut explosions. A big part of this money represents wooden threshing machines that were total losses to their owners. Many CASE Steel Threshing Machines went through these fires without serious damage, a few dollars putting them into shape to thresh as well as before. Such are the reports we have had from their users.

The possibility of fire from smut explosions may be slight in your vicinity, but the danger of fire from one source or other is always a factor for you to reckon on.

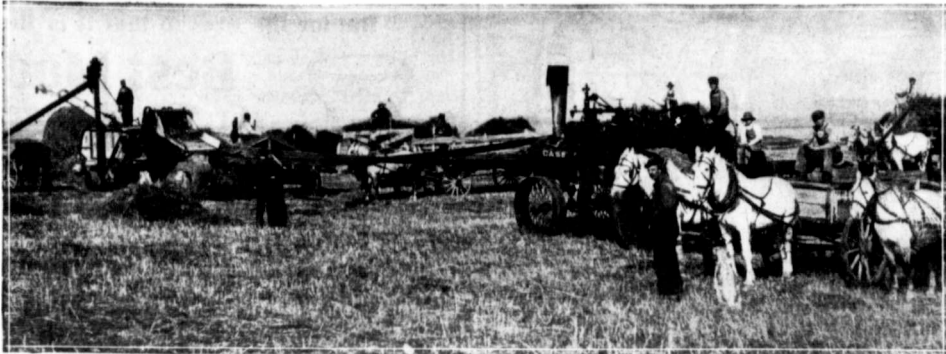
Permanence in construction is a vital factor in every threshing machine. Particularly is it vital in CASE Machines where in connection with scientific design, it results in a machine whose long life and ability to thresh rapidly and thoroughly, make it the wisest choice of both thresherman and grain grower, as thousands of these men have told us. From Nebraska comes to us a report of one CASE Threshing Machine that has been run for 42 seasons and still does good work. This is how CASE builds.

You will find it profitable to send for "Facts from the Field", the experiences of users of CASE Machines, and our latest catalog on threshing machinery.

J. I. CASE THRESHING MACHINE COMPANY, Inc.

741-791 State Street, Racine, Wisconsin, U. S. A.

Canadian Branches: Toronto, Winnipeg, Saskatoon, Regina and Calgary



CASE in South Dakota

Why You Should Use CASE Power



You who should, but do not, farm with CASE Power —

Have you ever stopped to figure what you lose by clinging to old-time methods? Your present methods are not producing the greatest results. To prove it compare your profits with those of your neighbor who farms the CASE way.

The man who uses CASE power, quickly finishes his own work. He then has time to do the neighbors' jobs or road work for the county. Thus he keeps his tractor busy which means increased production, therefore, increased revenue.

The cost of horses and mules may soon become prohibitive because of the unusual demand for these animals by the warring nations of Europe. With animal power becoming scarcer and more costly, you will eventually have to turn to mechanical power. What better then, than CASE Power—Gas or Steam Tractors—whose cost you will find to be extremely low when you divide their purchase price by their years of service. Long life is a feature of all CASE Machinery.

Our catalog of Power Equipment will guide you to a safe and profitable investment. It gives full details of CASE Steam and Gas Tractors. Mailed on request.

J. I. CASE THRESHING MACHINE COMPANY, Inc.

741-791 State Street, Racine, Wisconsin, U. S. A.

Canadian Branches: Toronto, Winnipeg, Saskatoon, Regina and Calgary

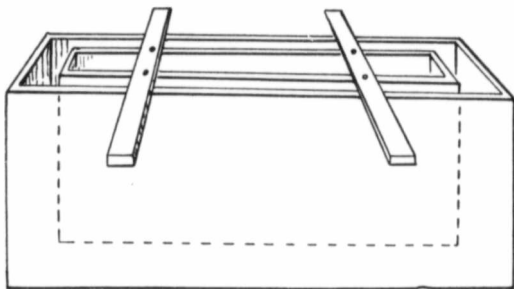


Old Store Boxes and Concrete

THE accompanying drawing is designed to represent two store boxes, one smaller than the other. The wooden strips nailed across the top of the inside or smaller box keep it suspended a few inches above the bottom of the larger box. These two boxes are forms for certain simple things to be made in concrete. The smaller box is suspended in the manner described in order that it may not sink into the fresh concrete when the bottom layer is put into the larger box. After this first or bottom layer of concrete is placed, the space between the sides and ends of the two boxes is filled with concrete and the result will be a box of concrete of the dimen-

nails from the outside, penetrating the wood just sufficiently to keep the blocks in place so that the nails may be easily withdrawn. After the concrete has set and the forms are removed the wooden blocks representing the tiles can be withdrawn from the concrete and the tiles placed in the depression and made secure by pointing them with cement mortar.

By the use of a dense and impervious concrete, reinforced as described above, but especially at the corners, the forms will answer for a small tank or watering trough. Where tanks are to be placed in exposed situations subject to freezing, it would be well to slope the inside form by making it a little smaller at the bot-



tom than at the top, thus providing an inclined interior surface upon which the ice will tend to slide upward, thereby preventing the destruction of the tank. It is said, however, that the placing of a stick in an upright position in a receptacle of this character will prevent it from bursting in cold weather.

With pipe openings established, these box forms are available for the construction of a kitchen sink or slop drain, as well as a drain for an outside pump or faucet.

Made in narrow sizes they could be used for making receptacles in which to sprout seeds, merely placing a pane of glass over the top.

They would be convenient to use around the poultry house, for example, for hens' nests, for they could be easily disinfected by subjecting them to fire. If the boxes were of fairly good size and nails were inserted in the concrete along the upper edge before the material set, the box could be turned on its side and wire netting attached to the nails, thus

tom than at the top, thus providing an inclined interior surface upon which the ice will tend to slide upward, thereby preventing the destruction of the tank. It is said, however, that the placing of a stick in an upright position in a receptacle of this character will prevent it from bursting in cold weather.

With pipe openings established, these box forms are available for the construction of a kitchen sink or slop drain, as well as a drain for an outside pump or faucet.

Made in narrow sizes they could be used for making receptacles in which to sprout seeds, merely placing a pane of glass over the top.

They would be convenient to use around the poultry house, for example, for hens' nests, for they could be easily disinfected by subjecting them to fire. If the boxes were of fairly good size and nails were inserted in the concrete along the upper edge before the material set, the box could be turned on its side and wire netting attached to the nails, thus

Not because it is
"Canadian Made"

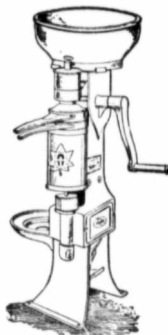
But for the Reason that it is the

**Best Made
Cream Separator**

every dairy farmer who does not possess one should make the fullest investigation as to the outstanding structural and economic merits of the

"MAGNET"

See our guarantee at bottom, and on sight of this advertisement write us for complete certified details of at least twenty distinct advantages this machine possesses over any other cream separator now used in Canada.



The Perfect Skimming

of the "MAGNET'S" one-piece skimmer is only one of its many individualities. Its SQUARE GEAR is another. In the one-piece skimmer the cones are set so that the centrifugal force breaking the connection between the butter fat and the milk to make perfect separation has absolutely free action. Beware of cones that are placed close together, as is the case with all worm gear separators, as they introduce Frictional separation which prevents the full action of the centrifugal force and therefore, irregular separation, and then besides the insertion of many extra pieces which are really Mechanical obstructions and are also very troublesome to clean.

We will easily prove what we say by showing you the MAGNET in your own dairy. The design and construction of the machine is what has compelled us to double the output of our factory this year.

The Petrie Mfg. Co. Ltd.

Head Office and Factory: HAMILTON, ONT.
Winnipeg, Calgary, Regina, Vancouver, Montreal, St. John, Edmonton, Lethbridge.

You saw this advertisement in this magazine. Don't forget to say so when writing.

The Long Looked For Has Come!

It is here! Cheap Power for the Farm

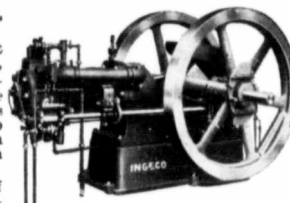
The "INGECO" Throttling Governor Kerosene Engine

IT APPEALED TO US, IT WILL APPEAL TO YOU

If you really want the best engine value in this Country, this engine will surely appeal to you.

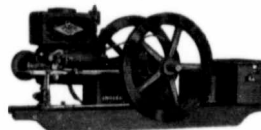
This is not a Gasoline Engine with a Kerosene Attachment, it is a Kerosene Engine, designed to burn Kerosene, operates with Kerosene and is economical on Kerosene.

We guarantee consumption of Kerosene with "INGECO" ENGINES not to exceed in quantity what it takes of Gasoline to operate a Gasoline Engine. Think of the saving in dollars in one year.



An "INGECO" Engine will deliver 100 per cent service. It will come up to your fullest expectation as to power, reliability and durability.

Besides its operating cost is very low, which is an important item at the present cost of fuel. Its simplicity of construction and accessibility make it easy to take care of.



All parts are made from jigs and replacement is readily made.

The "INGECO" Engine is designed and constructed to give satisfactory service under all conditions and always delivers its full rating with an abundance of power to spare.

We have such a range in sizes and styles, that space does not permit us to quote prices. If interested, write us for circulars fully describing. Made in sizes 1 1/2 to 7000 H. P. Tank Cooled, Hopper Cooled, Air Cooled, Horizontal and Vertical, Portable and Stationary.



Canadian Distributors

Burrige-Cooper Co., Ltd., Winnipeg, Man., and Regina, Sask.

Write Winnipeg Office for Special Introductory Price

You saw this advertisement in this magazine. Don't forget to say so when writing.

making it serve as a small coop. Concrete boxes could also be used for sprouting oats, thus giving green food for chickens in the winter season. It would merely be necessary to put the boxes in a warm cellar, spread over the bottom two or three inches of oats and sprout the latter by adding a sufficient quantity of water, as is done with wooden boxes.

Such receptacles would make excellent refuse boxes and if quite large would be very convenient for small storage purposes, indoors or out.

Transferred to the barn, they would prove to be convenient for the mixing of feed, especially where water is used, as concrete improves in strength when subjected to moisture.

It would not be a difficult matter to establish them in the horse or cow stalls for mangers or small watering troughs.

In using old boxes in the manner described it must be understood that the chief object in view is to do the work as cheaply as possible. In a majority of cases, unless the boxes were perfectly smooth and oiled or soaped before the concrete is put in, it would be necessary to destroy them in removing them from the concrete.

If the builder cares to go into more expensive forms, such as can be used over and over again, the same structural methods would be used in the case of well-made forms provided with hinges and locking devices to facilitate their removal and repeated use.

A satisfactory mixture for work of this kind would be a concrete composed of 1 part Portland cement, 2 parts sand and 4 parts stone or gravel. When placed in the forms it should be thoroughly tamped and worked from side to side with a flat paddle. This will bring the richer mortar to the sides of the form, making a smoother surface than would otherwise result. The concrete should be of "sloppy wet" consistency. It should be protected from the hot sun and wind and kept in the forms several days, after which it should be sprinkled twice a day, or, if the object is small, immersed in water for the period of a week.

The purpose in using concrete is to have an everlasting and decay-proof material which may be employed for indefinite purposes.

How to Get the Most Out of Light Horses.

By RAY HUMPHREYS.

Farmers, as a rule, are too anxious to sell off their light colts to give the matter any consideration. They regard these undersized animals as not worth the time and money involved in raising them, hence sell them for

whatever they will bring unbroken, which is usually very little, and the result is a loss to the breeder.

If sufficient attention were given the circumstances, this loss would be eliminated, and a profit would be made in its place. If the small light horses are given a special method of training, they will develop into animals as valuable as the heavier ones, and perhaps even more so. There exists at the present time a good market and steady demand for this type of horse for saddle usage, and for polo work. All over this country, especially in the cities, a great deal of interest is being taken in horseback riding, and there seems to be a lack of the right sort of horses.

Generally speaking, the demand is for animals around fourteen hands and weighing something like 1,000 pounds. If the farmer has an animal of this size, of good color and breeding, he can make him ready for sale, at a good price, by a special system of breaking. The horse should be broken to ride only, as breaking to cart spoils him to a great extent for saddle purposes.

He should be treated kindly, so as to develop him into a spirited animal, not mean or vicious, but all horse. He should be taught easy and natural gaits such as a slow walk, an even, steady trot, and an easy, swinging canter. He must be made to feel his bit at all times and places, and the slightest signal of the rider.

An Open Letter

TO THE

Fence Users of Western Canada

For some months past we have been working on a direct sales plan by which we will be able to sell

IDEAL FENCE

Direct to You
From Our Factory

We are now completing details and

Our New Price-List
Will appear in January

In your own interests we suggest that you watch for this announcement, and defer placing any fencing order till after its appearance.

The Ideal Fence Co., Ltd.

WINNIPEG

CANADA

You saw this advertisement in this magazine. Don't forget to say so when writing.



"Joy to the World—Christmas is Near!"

"It will be here before you know it"—Christmas and the happy holiday reunions. But there is still time for you to make real the Christmas dream of wife or daughter for a Piano, a Player-Piano or a Victrola and arouse your family on Christmas morning with the inspiring dash of rollicking Christmas tunes!

Add to the pleasure of the instrument itself the comfortable feeling that you may pay for it in the most convenient way imaginable, on a "plain-as-print-can-make-it" plan, business-like and friendly!

We would rather show you personally the superior features of the instruments we make, sell and handle, than to merely tell you about them in a brief advertising talk. But if the distance should make a personal call impossible, write us for our different booklets TO-DAY, for if we have one wish greater than all others, it is that this Christmas may be marked in every home as

THE CHRISTMAS OF MUSIC

We are royally ready to help anyone in the fulfilling of that wish!

Mason & Risch Pianos and Player-Pianos

Are built on the principle that there IS a love of music, that there IS a love of art, and that nothing LESS than art can EVER satisfy it.

Victor-Victrolas

Bring fountains of joy in a world of homes. Big and little, old and young, all hail it with delight, and for each it has its own particular charm.

Can you think of ANY gift which will appeal more forcibly to your family?

MASON & RISCH, Limited

WINNIPEG

Some Veterinary Notes.

By A. S. ALEXANDER, M.D.C.

Blisters are very commonly prescribed in veterinary medicine, but we find that stockmen have erroneous ideas as to their composition and use. The blister primarily is used to bring a big flow of blood into a part. The blood brings in at the same time nutrients from which new tissues are formed and takes away products of inflammation and disease. Building up of tissues is needed where a wound has occurred, or where an abscess has caused a cavity. From such abnormal conditions morbid matters have to be pumped away. Added flow of blood does this.

Blisters, also, are used as "counter-irritants," and then are expected to draw the blood to the surface, or divert it from the part attacked by disease. There is a possibility of such effect; but the chief remedial effect is the greater added supply of fresh blood brought to the part by the irritating effect of the blister. When a blister is applied to a bony growth, such as ringbone or spavin, it is expected to do one of two things, viz., either cause reabsorption of the growth, or complete the formation of false bone by bringing down, in the increased blood flow, the salts from which the growth is formed.

If the growth is reabsorbed, as sometimes happens in young colts, lameness may be obviated and the eyecore at least is removed. If the growth is completed quickly, which is liable to happen where blistering is done in an adult horse, lameness subsides, because the joint involved becomes united by the deposit of bone, and when motion ceases friction subsides, pain disappears and the lameness due to pain is removed. A blister, therefore, should be applied with these effects in mind, and will not be likely to do any good if the effect is not caused, or needed. For instance, it is useless to blister repeatedly for spavin lameness, unless the animal is completely rested; for the blister can only do good by causing union among the bones involved, and such union (anhylosis) can not take place during motion. For that reason we tie a horse up short for at least six weeks after firing and blistering the hock joint for spavin.

It is better to make up a simple blistering compound by melting three ounces of lard and then melting in that one-quarter ounce of yellow beeswax which has been cut into fine shavings. Into the combination stir one ounce of powdered Russian cantharides, while the mixture is hot; then pour it into a shallow pan and stir until it becomes cold. This blistering compound improves with

age, if kept tightly covered in a Mason jar. To use it properly clip off the hair, wash the skin clean and dry it perfectly. Rub the blister in, a little at a time, for fifteen minutes by the watch; then smear more blister on the part and tie the horse up short in his stall so that he will be unable to bite or lick the part. Wash the blister off in forty-eight hours; then apply a little lard daily. Do not blister a horse in excessively hot or cold weather. Do not blister on the loins or high up on the hip. Do not bandage a blistered surface.

Getting Bread From Stones.

Impoverished Soil Made to Yield Thirty-five Bushels Wheat Per Acre—Phosphate and Limestone Make Cheap, But Effective Fertilizers—Clover Used in Rotation.

Among the experts who are achieving results in showing what increase can actually be made in yields by proper treatment of the soil is Prof. C. G. Hopkins, of Illinois. He has just made public a report on a farm which he purchased ten years ago at a cost of less than \$20 per acre. The price was low because the land was recognized to be poor. In fact it had been christened "Poorland Farm" by the neighbors, who knew of its impoverished condition. Prof. Hopkins describes the course of treatment adopted as follows:

In 1913 a forty-acre field of this farm produced 1,320 bushels of wheat. This particular forty acres was bought at \$15 an acre. It had been agriculturally abandoned for five years prior to 1904, and was covered with a scant growth of red sorrel, poverty grass and weeds.

During the ten years, this field has been cropped with a six-year rotation, including one year each of corn, oats (or cowpeas) and wheat, and three years of meadow and pasture with clover and timothy.

A fairly good stand of volunteer clover appeared with the oats in 1911, and this was allowed to produce a crop of clover hay in 1912, wheat being seeded in the fall of that year for the 1913 crop mentioned above.

During the ten years about four tons per acre of ground limestone and two tons per acre of fine-ground raw rock phosphate have been applied to thirty-seven acres of this field. Two applications have been made of each material; the phosphate was plowed down for the corn crops of 1904 and 1910, and the limestone was applied in the fall and winter of 1904-5 and after the ground was

INTERNATIONAL STOCK FOOD



keeps horses, cows, sheep and pigs in such prime condition, because it is composed of the same herbs, roots, seeds and barks that these animals eat freely when running wild. We grind these ten medicinal substances to a fine powder, mix them thoroughly and give them to you, at their best, in International Stock Food.

This is why a tablespoonful of International Stock Food with the regular grain fed tones up the system of horses, gives them new life, and a glossy coat of hair. It is the best thing you can give a horse for indigestion, liver trouble, coughs, influenza, hide bound or blood trouble. International Stock Food is equally good for horses, cattle, sheep and hogs. It cures the system in a healthy condition and promotes rapid growth. For sale by dealers everywhere. 111

INTERNATIONAL STOCK FOOD CO., LIMITED, TORONTO, Ont., Can.

Success Business College

\$50 Pays for 4 Months Course

Insure success by a business training. Get it in the best Business College—the College that has made the greatest success of its business. This is the Success Business College, with schools at Winnipeg, Regina, Moose Jaw, Weyburn, Calgary, Lethbridge and Vancouver. We use 309 typewriters. Send to the nearest school for free prospectus, beautifully illustrated. Don't put it off. Act now!

F. G. GARBUTT, PRINCIPAL.

THOMAS LEE
Maker of CLEAR HAVANA CIGARS

Smoke the T. L. CIGAR

| | | | | | | | |
|-----------------------|--------|--------|--------|-------------------|--------|--------|----------|
| 100 | 50 | 25 | 100 | 50 | 25 | | |
| Magnific Perfectos | \$7 00 | \$4 50 | \$2 25 | Acme Perfectos | \$7 00 | \$3 50 | \$1 75 |
| Magnific Boquet | 8 00 | 4 00 | 2 00 | T. L. Londres | 6 00 | 3 00 | 1 50 |
| Magnific Concha | 7 00 | 3 50 | 1 75 | T. L. Rothschilds | 6 00 | 3 00 | 1 50 |
| Allison Jaz Perfectos | 8 00 | 4 50 | 2 25 | Acme Londres | 6 00 | 3 00 | |
| Allison Londres | 8 50 | 4 25 | 2 12 | Flor de Pastella | 6 00 | 3 00 | Made in |
| Allison Boquet | 8 00 | 4 00 | 2 00 | Leaf Selkirk | 6 00 | 3 00 | Winnipeg |
| Allison Concho | 7 00 | 3 50 | 1 75 | Little Pets | 4 00 | 2 00 | |

Box orders solicited. Mail Orders Promptly Attended to. Cash with order.

No order too small and none too large.

Factory, Office & Warehouse: 187 Sutherland Ave.
WINNIPEG Dept. "C" ESTABLISHED 1886

THE CLIPPER WINGOLD FAMILY SIZE STEEL RANGE
IS GUARANTEED TO PLEASE YOU

If after using it in your own kitchen for SIXTY DAYS you do not find it perfectly satisfactory and exactly as represented, and the equal of ranges selling at \$10 to \$15 more than our price, we will return your money, also all freight charges you paid when stove was received.

BODY AND OVEN made of extra heavy steel, asbestos lined and reinforced with metal covering.

WARMING CLOSET is of generous proportions, nice and roomy.

COOKING TOP covers and centres are made of the highest grade gray iron; has 6 9-in. holes.

OVEN is perfect baker. Does its work quickly and evenly with little fuel. Oven measures 20x18x13 in.

THE FIRE BOX is adapted for all kinds of fuel and has extensive punch for extra long wood. Heavy fire back, well ventilated, to ensure long life.

THE GRATES are of the duplex pattern and can be changed from coal to wood by simply turning half way with the shaker.

SMOOTH SILVER NICKELLED TRIMMINGS.

THE COPPER RESERVOIR is encased. Holds three gallons.

No. 9-19—CLIPPER STEEL RANGE, WITHOUT RESERVOIR. \$27.50
Shipping weight, 376 pounds. Price
No. 9-19—CLIPPER WINGOLD HIGH CLOSET AND RESERVOIR. \$31.75
VOIR. Price complete.
Order from this advertisement, or send for free bargain catalogue.

WINGOLD STOVE CO. 181 Market St. WINNIPEG

27.50 Without Reservoir Burns Coal or Wood

plowed for wheat in the fall of 1912.

The entire forty-acre field was covered with one uniform application of six loads per acre of farm manure with a fifty-bushel spreader.

Six rod strip entirely across the field (eighty rods) received the same application of manure and the same rotation of crops as the remaining thirty-seven acres, but no phosphate was applied to this strip, and no limestone was applied to it until the fall of 1912, when the regular application (about two tons per acre) was applied to one-half (three rods) of the six-rod strip.

Only thirty-nine acres of this field were seeded to wheat in the fall of 1912, a lane having been fenced off on one side; and the 1,320 bushels were produced on the thirty-nine acres.

The actual yields were as follows:

One and one-half acres with farm manure alone produced eleven and one-half bushels per acre.

One and one-half acres with farm manure and the one application of ground limestone produced fifteen bushels per acre.

Thirty-six acres with farm manure and two applications of ground limestone and two of fine-ground phosphate produced thirty-five and one-half bushels per acre.

The cost of two tons of limestone delivered at my railroad station is \$2.25, and raw rock phosphate has averaged about \$6.75 per ton, making \$9 per acre the cost for each six years.

To this must be added the expense of hauling these materials two miles from the station and spreading them on the land, which I estimate at fifty cents per ton. This makes the average annual cost \$1.75 per acre for the limestone and phosphate spread on the field, and this average annual investment resulted in the increase of twenty-four bushels of wheat per acre in 1913.

Thus we may say that the previous applications of these two natural stones brought about the production in 1913 of 864 bushels of wheat, sufficient to furnish a year's supply of bread for more than a hundred people. No high-priced or artificial commercial fertilizers are used on this farm.

As a rule the check strips across each of the six forty-acre fields in the rotation are not harvested separately from the rest of the fields. The limestone and phosphate have produced even more marked difference in clover than in wheat; and where the first application of limestone was made to the three-rod check strip, as well as to the thirty-seven acres receiving rock phosphate, the superiority of the phosphate and



Be SURE of YOUR CUTTER

When buying a cutter you want to know that it is made properly and will stand up to the driving you will give it. A well-finished exterior does not guarantee a job being made of the class of materials you want in your cutter.

Buy a Brantford Cutter

BECAUSE they're built so you can depend upon them at all times.

BECAUSE they're built for Canadian roads.

BECAUSE they're built only of the very best of selected materials.

BECAUSE they're finished in a manner to do justice to their extra strength and speed.

BECAUSE they're "Made in Canada." The name Brantford stands for Cutter Quality; the name Cockshutt stands for a "square deal" to all.

Why pay more? The Brantford Cutter sold by Cockshutt Agents gives you the utmost in every respect—at a most reasonable price.

Get posted on the Brantford-Cockshutt Line. A visit to our nearest agent will show you the **Right Cutter** for you at the **Right Price** for your purse. Try to SEE it TO-DAY.

Cockshutt Plow Co. Limited

Winnipeg Regina Saskatoon Calgary

LOCAL AGENTS EVERYWHERE

You saw this advertisement in this magazine. Don't forget to say so when writing.

limestone together over the limestone alone has been exceedingly marked on both clover and wheat; and, of course, the wheat and other grain crops are benefited not only by the limestone and phosphate but also by the previous increased growth of clover on the well-treated land, especially where this is pastured or plowed under.

**A Book on Diseases of Stock
and How to Cure Them.
Sent Free**

The enterprising firm of H. R. Hawkey and Co. have issued an exceedingly attractive little booklet entitled "Diseases of Farm Stock and How to Control Them," which they are sending free of charge to the farmers in

Western Canada.

The book may be easily carried in the vest pocket for ready reference at any moment. Quite unlike most books of a similar nature all technical and scientific discussion has been eliminated. Realizing that the farmer wants facts in clear cut understandable language, the Hawkey Vest Pocket Veterinarian discusses the principle diseases to which stock in Western Canada is subject under four distinct heads, as follows: Definition, Cause, Symptoms and Treatment.

We observe that with excellent foresight in offering a complete list of remedies and stock tonic to the farmers in Western Canada that they have provided themselves with an ample supply of Oil Cake Meal at reasonable

prices. Owing to the high prices of grain, a lot of straw is being fed this year, and as a consequence there is a demand for remedying the condition in which animals often get. Trouble from this source is easily avoided if the farmers will mix with straw a few pounds of Hawkey's Oil Cake Meal which will give the same results as good hay at a great saving in price.

Hawkey is putting up excellent horse and cattle tonic foods at popular prices, which are giving excellent results. We understand that while the edition just off the press of Hawkey's Vest Pocket Book on "Diseases and How to Control Them" is a limited one, that they are giving them freely to farmers who send a request. The book is well worth having.

NO. 1
HARD

Winnipeg, December 1, 1914.

NEAR close of navigation on the Great Lakes it is interesting to note the stocks in terminals as at November 27, 1914.

| | |
|-----------------------|------------|
| 1914—Bus. | 1913—Bus. |
| Wheat 5,390,285 | 10,452,546 |
| Oats 1,623,292 | 4,818,925 |
| Barley 162,087 | 2,139,495 |
| Flax 699,476 | 2,617,622 |

It is expected that the next posting of stocks will show a big decrease in both wheat and oats and it is likely that there will not be more than 3,000,000 bushels of wheat in store at the Head of the Lakes when the last boat is cleared. Two years ago some forty-two boats wintered with loads in them, last year twenty-eight and this year it is estimated that only four or five will so winter. Weather conditions in the next few days may alter this as they have had the same big snow storm last night and to-day as we have had in Eastern Manitoba.

Cash demands for all grades has been quite good throughout the month of November, with receipts running one-third to one-half what they were a year ago. Receipts in the last ten days were greatly increased by reason of several of the Line Elevator Companies emptying and closing many of their Line Elevators. Stocks at interior points are also relatively very small at this date. The Americans with their large surplus of winter wheat have worked vast quantities for export and foreign export shipments July 1—Nov. 30, 1914, from the United States aggregate 139,000,000 bushels, as against 81,000,000 last year, the greatest export business by all men ever worked from United States in the first five months of their winter wheat year. In the last few days Rockefeller Foundation have been good buyers for immediate shipment for the relief of Belgian sufferers and are credited with having taken 780,000 bushels yesterday for immediate shipment on relief steamers.

The soil conditions over the winter wheat area are causing considerable apprehension as some experts now figure that while the American winter wheat acreage is 16 % greater than last year, the average condition is

only 86.08 against 97.02 last year or a five years' average of 90.07, thus indicating that the winter wheat crop for the coming year will be 30,000,000 to 40,000,000 bushels under that of 1914. Complaints of poor germination also appear from many districts. Moisture is wantner over almost the entire winter wheat belt. Stocks are nowhere burdensome and have only recently begun to decrease. Were ocean tonnage available to move the grain quickly, the decrease in American visible as well as our own would be much more rapid. Weakness in corn by reason of their large crop of fine quality coming on the market rapidly, had a sympathetic effect upon wheat recently, while at the same time determined efforts were made by certain large interests to "bear" the wheat so that the public would part with their holdings. The public, however, has persistently bought wheat in all markets, feeling that the end of the war was still a long way off. Thus, this week a sensational break was recorded in all markets when rumors came up from the Argentine that they would have an exportable surplus of over 144,000,000 bushels. A few days earlier it had been reported that such surplus might run 90,000,000 bushels or it might be as low as 77,000,000 bushels. It has been a slow day, however, when Europe has failed to take 1,000,000 bushels of wheat from North America now that Russia cannot ship. The result has been excellent prices secured for all grades of grain with a constant demand. European conditions are changing from day to day according to features of war. France has been a good buyer all Fall. Supplies for human consumption are becoming more scarce from week to week in Germany and Austria and in the latter country in particular prices have gone exceedingly high. Russia cannot ship, and now that Turkey is at war with the Allies, it will likely be a long time before the Dardanelles are open. Waste in Europe through wanton destruction of supplies is exceedingly heavy.

On the Pacific Coast, stocks are at a minimum. Across our prairies comparatively little wheat

Good Land and Careful Farming Produces "NO. 1 HARD"

THE DOMINION BUSINESS COLLEGE will Train Your Children to be "NO. 1 HARD" in the Business World.

Send Your Sons and Daughters for a Personal Training at the College or Let Us Send Instruction to Your Home by Mail.

THE DOMINION BUSINESS COLLEGE

COR. DONALD ST. & CUMBERLAND AVE.

WINNIPEG, CANADA

No Farmer Likes His Wheat Graded as "FEED"

THE DOMINION BUSINESS COLLEGE Training will Prevent Your Being Graded as "FEED" in the Business World.

A Mail Course of Instruction This Winter will be a Foundation for a Personal Course at the College Next Winter.

Sow the Seed now if You would reap a rich Harvest later.

Write for particulars of how we teach you at your own home.

You saw this advertisement in this magazine. Don't forget to say so when writing.

FARMERS!

TO THE

CANADIAN ELEVATOR CO., LTD.

Grain Commission Merchants, Winnipeg

It is as much our business to give satisfaction as to secure grain shipments. We watch the grading of each car, allow liberal advances on all bills of lading and make prompt returns.

You saw this advertisement in this magazine. Don't forget to say so when writing.

SHIP YOUR GRAIN

TO THE

CANADA ATLANTIC GRAIN CO. LTD.

GRAIN EXCHANGE WINNIPEG

Our Motto: A Trial Shipment Solicited

Best Grades, Best Prices and Most Liberal Advances Established 1910 Licensed Bonded

You saw this advertisement in this magazine. Don't forget to say so when writing.

GET THE "ECONOMY"

ECONOMY FOUNDRY CO., Ltd.

Don't Waste Your Grain

Stock do much better if fed on crushed grain than on whole. This is proven conclusively by numerous tests and experiments at leading Canadian and U. S. Experimental Farms. It is likewise generally conceded that the roller crusher is the best grinder to use. "The Economy" Roller Crusher has many distinctive features about which you should know. Made in two sizes:

No. 1—2-ROLLER CRUSHER 12-in. rolls, shipping weight including hopper 475 lbs., takes four to six h.p. engine for best results.

No. 2—3-ROLLER CRUSHER 4-in. rolls, shipping weight complete with hopper 575 lbs., takes eight to ten h.p. engine for best results.

Write for prices and illustrated descriptive matter.

Head Office: 407 Donalds Bldg., Winnipeg
Works: Portage la Prairie, Man. fab.

You saw this advertisement in this magazine. Don't forget to say so when writing.

Family Group Photos a Specialty

AT

STEELE & CO., LTD.

MAIN ST. AND BANNATYNE AVE. WINNIPEG

You saw this advertisement in this magazine. Don't forget to say so when writing.

remains on the farms and with an increase of 20 per cent to 25 per cent on the total wheat acreage is taken into consideration, necessitating 6,000,000 to 8,000,000 bushels more seed, it means that the shipments from now on will be comparatively light and at no time a burdensome factor. It will be noted that the demand for cash grain has been quite good all fall so that supplies were readily absorbed in all markets and that, while other years there would be a spread of six to eight cents between December and May options, this year the spread has often been less than four cents. The result has been that the Line Elevator Companies wisely concluded that it would not pay them to hold the cash wheat in store in the country and shipped out before the close of navigation and closed a number of their houses as the spread was too narrow to constitute a fair carrying charge.

The United Kingdom, India, Italy and France report favorable crop conditions except that a large section of Northern France has been devastated by war. Wet weather, followed by heavy snow falls, has hindered late seeding in Germany and Austria and it is probable that in those countries the acreage is much under normal, which should result in quickening the end of the war. Drought in Australia still continues. It is likely that with merchant ships scurrying to cover in neutral ports until the anticipated naval battle off the Coast of Uruguay is over, tonnage to move the Argentine crop will be scarce for some weeks to come and it will probably be late January or February before there is any considerable movement from the Argentine. Hog cholera carrying off many thousands of hogs and the foot-and-mouth disease resulting in the destruction of thousands of cattle in some States, have had the effect of weakening, temporarily, the demand for corn, as the first flood of marketing is on and should receipts not continue exceedingly heavy, corn markets will likely recover some of its loss and in sympathy help wheat somewhat.

Broomhall, the British crop expert, is out to-day with a very bullish statement of the world's wheat conditions, indicating that Australia is 25,000,000 bushels short and importation will be necessary. France must get 80,000,000 bushels and so far has only imported 24,000,000 bushels.

Altogether the wheat situation seemed fairly strong though exceedingly sympathetic to any rumors of peace but peace can easily be considered out of the question for many months to come. Even should peace be declared, however, and a temporary decline of several cents per bushel

come, we believe eventually Europe will want all our wheat at even higher prices. Farmers holding grain still on their farms can clean the same up and find a brisk demand for seed, especially since more and more seed is wanted for the increased acreage in our country and both Australia and New Zealand are buying seed off our prairies. After January the 1st it is expected that the usual seed grain rates will be in effect.

Coarse Grains

A big crop of high grade corn coming on the boards in the United States, quickly had the effect of weakening oat values for the time being and with more and more European countries coming into the war and thus a bigger export demand arising for oats, it is likely that the liquidation is about over and there should be, from now on, a greatly improved demand for oats. Relatively, the oat market is the strongest of all grains for animal consumption and only a persistently heavy marketing of corn will keep the demand for oats down. Stocks at terminals everywhere are not heavy and it is believed that the stocks in farmers' hands are also light. Good seed oats will be very difficult to obtain and any farmers holding clean oats, unfrosted, should keep the same for seed purposes and if they advertise at all they will find a brisk enquiry for their grain. Barley is weak and dull with no one shipping, with stocks at terminals at a minimum. There will likely be little doing in this grain until an all-rail demand springs up about the middle of this month.

Flax

This grain had a sensational advance toward the end of November and stocks at terminals went greatly reduced and the flax sent down the lakes. Foreign oil-cake demand has been good with indications of continuing. There will likely be sharp fluctuations in this seed and we do not expect to see it work much lower but gradually higher.



An Irishman fresh from the Emerald Isle entered a car where all the seats were full. On one sat an Englishman, his dog occupying the seat next to him. Walking over, the Irishman removed the dog to the floor and took the seat himself. To hide his temper the Englishman turned and looked out of the window.

"That's a fine pup of yours. What breed is he?" asked Pat, eager for conversation.

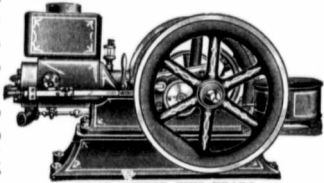
"Half Irish and half fool," snapped the Englishman.

"Well, bedad, and the spalpeen is akin to both of us!" chuckled Pat dryly.

Will run all day without attention, furnish exactly the power you need, maintain a uniform speed and save you money every hour it works.
Can be equipped to use Kerosene for fuel at small additional cost.
Best economist of time and money you can place on the farm.

THE WATERLOO BOY GASOLINE ENGINE

LOWEST IN PRICE BECAUSE MADE IN LARGE QUANTITIES AT LOW MANUFACTURING COST



GUARANTEED FIVE YEARS

PRICES FOR CASH WITH ORDER

| | |
|---------------------------------|----------|
| 1 1/2 H.P. Air Cooled Engine | \$ 38.40 |
| 1 1/2 H.P. Hopper Cooled Engine | 39.20 |
| 2 1/2 H.P. Hopper Cooled Engine | 56.80 |
| 4 H.P. Hopper Cooled Engine | 104.00 |
| 6 H.P. Hopper Cooled Engine | 148.00 |
| 8 H.P. Hopper Cooled Engine | 209.60 |
| 12 H.P. Hopper Cooled Engine | 314.40 |

Prices quoted are for skid mounted. These engines will all develop from a half to a horse power more than they are rated above.

THE LITCHFIELD LAUNDRY

Most Complete and Easy Laundry Outfit for the Farm Home

POWER LAUNDRY \$36.00

ELECTRIC LAUNDRY \$78.40



With this ideal and inexpensive power combination, the clothes can be wrung from the rinsing tub to the bluing tub while the Washing Machine is handling another batch of clothes. All done by power at the same moment. It means immense labor saved. Time saved and a great saving of wear and tear on the fabrics being cleaned.

No back-breaking work for the woman. **THE ENGINE DOES THE WORK OF TEN TOLLING WOMEN.**

Send at once for Complete Illustrated literature of this the greatest event in Home Economics since Washing Machinery was first heard of.

Burridge Cooper Ltd. Sole Canadian Agents Winnipeg

All prices quoted are for cash with order. Address all inquiries to Winnipeg.

You saw this advertisement in this magazine. Don't forget to say so when writing.

JAEGER For Xmas
Fine Pure Wool

Illustrations show a few "Jaeger" Xmas specialties. Write for full illustrated catalogue

Cardigans, from \$3.75
Golfers, " \$6.00

Caps, from \$1.00

Dressing Gowns from \$11.00
Lounging Jackets, " \$8.25

Fleece Slippers, from \$1.50

Incorporated in England in 1883, with British Capital, for the British Empire

For Sale at Jaeger Stores and Agencies throughout the Dominion

Dr. JAEGER SANITARY WOOLLEN SYSTEM
Toronto Montreal Winnipeg

You saw this advertisement in this magazine. Don't forget to say so when writing.

Something In It Paw: When the party in power
Willie: Paw, what is a stable displays horse sense, my son.
government? —Cincinnati Enquirer.

An Interesting Experience with Bucking Plows

Continued from page 30

being used on the engine and added to this the engineer was controlling it by hand, trying his utmost to keep the engine exactly the same distance away from the furrow at all times.

At this point the designer asked the owner to get his engineer to run the engine with the extension wheel over the furrow. At first the engineer refused to do this on the grounds that when he came to a soft place he would lose the use of the extension and the wheel would slip. The designer told the engineer that he was not steering the engine straight and a wordy battle ensued, the engineer offering to bet that his engine did not vary in distance from the furrow more than three inches from one end of the field to the other. He afterwards proved that he was right in this by stopping at intervals and measuring first the distance from the furrow to the wheel and then measuring the width of the furrow turned by the front plow. In this way it was shown that it was the plow and not the engine which moved away from the furrow.

Towards the end of the furrow the engineer did set the engine over with the extension wheel over the furrow and by hitching the chains to a point on the drawbar of the engine about eight inches from the right hand end, a straight pull was obtained on the plow, but the side draft on the engine was so great that in toef places the right hand front wheel would slide into the furrow in spite of anything the engineer could do. The plow as a whole was staying in line fairly well but the width of the furrows varied from 14 inches to 18 inches by actual measurement. It was now 6 o'clock and one round had been completed in the afternoon. The engineer and the plow designer now had a debate in which the following contentions were made. Firstly, the engineer claimed that where it was necessary to give a plow "suck" in order to keep it in the ground, it was better to give "suck" in the share than to tilt the plow and thereby lose the effect of the landside. Further, that if a short land side had any effect on keeping a plow in line a long landside would have more effect. The designer claimed that a plow should run level and that it was unnecessary to give "suck" on a share and further that a landside was not necessary at all. Secondly, the engineer said that the fact of the rolling coulter, yokes and shanks being bent (and it was admittedly impossible to prevent them from bending in stoney land), helped to pull the plows out of line and that therefore it would be better to use fin coulters. On

the other hand the designer contended that the rolling coulters were a protection to the plows and that to take them off would result in a lot of broken plows. Thirdly, the engineer advocated the use of cross chains and the running of the engine on the sod, claiming that he could thus overcome to a great extent the tendency of the plow to crowd away from the furrow. The designer said this would give side draft on the plow, the point being that the plow was much narrower than the engine and that the engine had to be set over in the furrow in order to get in line with the centre of draft of the plow. He pointed out that this trouble would not exist in a larger plow, say of eight or ten bottoms. In this the engineer had to admit he was correct. The designer also advised taking off the steering device as he claimed that on a side hill the engine could sideslip and yet the device still stay in the furrow. The engineer found this to be correct and followed this advice, steering by hand for the rest of the season.

The designer advanced a lot of theory in support of his points and the engineer pointed to the plowing. A few days later the engineer equipped the plows with extra long landsides, replaced the rolling coulters with fin coulters, had the shares sharpened and "suck" given at the points, used cross chains and discarded the steering device. The result was that the plowing done was said to be, by a large number of farmers who saw it, the best engine plowing ever seen in the district. It was of even width, very straight and of even depth and the sod was laid over flat. About 300 acres of breaking was done and the only farmer to complain about the quality of the work was the farmer on whose farm the plowing experience herein related took place. Two plow standards were, however, broken during this time.



What We Can Do With Alfalfa

Continued from page 32

from this point of view, even if it may not always command a dollar and five cents a pound—the price paid for the original seed that produced those 1,500 pounds?

The best methods of raising seed from Alfalfa have not yet been mastered. Like everything else in nature, we have yet a great deal to learn but already more than enough is known from invariable experience to bank upon a big paying result if common-sense means are followed. The season, of course, has a great deal to do with the seed crop.

In dry land areas, the first growth, which in many instances is the only growth for the season,

FREE

TO

Saskatchewan Farmers

You need only detach and send this coupon to obtain practical bulletins and leaflets on such important agricultural topics as

- Dry Farming
- Farm Crops, including Alfalfa
- Farm Machinery
- Farm Forestry
- Plans for Barns, Sheep Sheds and Pig Pens
- Care of Live Stock: Horses, Cattle, Sheep and Swine

EACH IN A SEPARATE BOOKLET

- Stallion Enrolment and Registration
- Care of Milk and Cream on the Farm
- Fleshing Chickens for Market
- Co-operative Live Stock Marketing

These and many others are ready. Make the best use of the long winter evenings.

SIGN AND MAIL THE COUPON TO-DAY

----- DETACH HERE -----

Dept. of Agriculture,
Regina, Sask.

Please send me bulletins on the following subjects:

.....

Name

Post Office

SASK.

furnishes seed if furnished at all. On irrigated land, the seed is more commonly taken from the second crop. The following may be safely stated with reference to growing seed: (1) Wet weather is unfavorable to seed production. (2) The same is true of rank growth in the plants. (3) Where seed is grown on irrigated lands, water should be applied sparingly if irrigated at all. It is now thought that seed can be profitably grown in dry areas and under dry conditions, if the plants are sown in rows and cultivated; in fact considerable success has already been attained under this system.

But to our readers who are sufficiently alive to the matter and are seeking counsel and help, we suggest that they should communicate with Professor Bedford—Manitoba's Deputy Minister of Agriculture who is an Alfalfa enthusiast. After carrying on careful experiments over a number of years Mr. Bedford has achieved some wonderful results and his information is freely at the disposal of any seeker after knowledge.



Sawyer-Massey Monitor Clover Huller at work on Mr. Irvine's farm, Neepawa, threshing Alfalfa, showing the complete rig at work, and also showing the Recleaning attachment.

"Wipe Your Feet!"

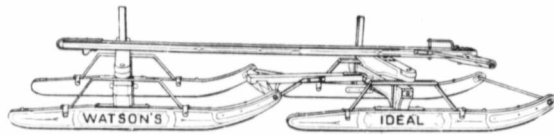
We are glad to draw the attention of our readers to the announcement on another page of a novel and highly serviceable household and office requisite which is made in Winnipeg by the Western Steel and Iron Co. It is a foot scraper for the home or business house doorway; made with steel scraper for the sole and two brushes at sides which effectively clean the snow or mud from the sides of the shoe. It may be fixed by screws to the wood flooring of verandah or spiked down to the soil outside any doorway where there is considerable traffic. The price is very low and the designers and manufacturers

claim that the device will save more money in one week in the cost and labor of cleaning floors than the price of the scraper.

Foaline

The Wallen Drug Company of Winnipeg are the manufacturers of what a very large number of leading horsemen and stock breeders declare to be one of the most effective preventives of navel diseases and joint-ill in foals they have experimented with. An announcement of this specific will be found on another page under the heading of "Foaline"—a prophylactic treatment for pregnant mares and guarantees immunity to the foal

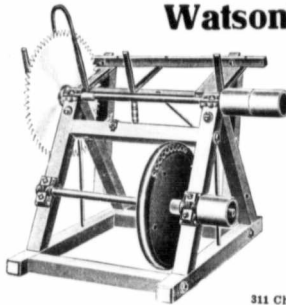
Watson Lines Make Winter Pay!



Watson's Sleighs

Are the pride of their owners and envy of competitors, because patented Watson features give them their superiority. We guarantee that our sleighs are lighter draft and keep the road better than any other sleighs made. Front bench has a patent truss that makes for long life, shoes have a "rock" where the greatest weight of the load falls. Watson's Sleighs are made for hard usage—and they stand it.

Watson's Pole Saws



Are made with strong, rigid wood frame, standing firmly and evenly on the ground; heavy steel shafts and boxes, solid fly-wheel, three pulleys; finely tempered, quality blades that stay sharp—Watson Standard throughout. No wonder these saws last long, and "just slip through the wood."

Write for the Watson Catalogue

John Watson Mfg. Co.
WINNIPEG, Canada.
311 Chambers Street

Watson's Feed Cutters

Seven styles and sizes of Watson Feed Cutters meet every requirement for "five head" or a ranch. Watson's Excelsior Junior cuts up to half ton per hour; operates by hand, horse, wind-mill or engine. Best English knives. Simple, handy lever for start, stop or reverse.



We Sell

- Channel Steel Harrows, Boss Wood Harrows, Harrow Carls, Falckerters, Lawn Goods, Wheelbarrows, Root Pulpers, Grain Grinders, Horse Powers, Straw Cutters, Heider Eveners and Lanesville Plows, Turnip Seed Sowers, Warehouse Trucks, Double Trees, and Neck Yokes, Pole and Cord Wood Saws.

You saw this advertisement in this magazine. Don't forget to say so when writing.

Farmers Lose

\$50,000.00

Annually

This year's loss may amount to more if old methods of disposing cattle hides are not changed. The wise-awake farmer always ships his hides to us, and with present high prices some hides bring \$10.00 each. By careful skimming and prompt shipment this can be accomplished. We will pay 1c per lb. for all hides shipped during December. Write us for tags and price list on raw furs.

North-West Hide & Fur Co.

278 Rupert Ave., Winnipeg



'Hercules' Foot Scraper

\$1.50 (Made in Winnipeg) \$1.50

Clean Floors in 1,000,000 Homes and Business Houses

Do you know that this scraper will save more money in one week than what it costs you; it removes the mud as efficiently as the snow and has a HEEL PIECE which is very effective. PRICE \$1.50 delivered to nearest railway station or post office in Manitoba or Saskatchewan and \$1.75 in Alberta.

The Western Steel and Iron Co., Ltd.
WINNIPEG Dept. C CANADA.

from Ompalitis and Pyemic Arthritis—navel disease and joint-ill respectively. "Foaline" formula is not a new and doubtful experiment. It originated in Europe where a study of the diseases named has been prosecuted to a very much greater extent than elsewhere.

We have had the pleasure of reading the testimony of many stockmen known to us who have used it, all of which is couched in the most unqualified terms as to the success of the treatment. We have the utmost confidence in recommending interested readers to get in touch with the Winnipeg manufacturers with the purpose of getting full details and testing the matter for themselves.



Love by Lantern Light

A Kansas farmer, returning home late at night, saw a light moving about the farmyard. When he investigated he found a neighbor's farmhand carrying a lantern.

"What are you doing here?" demanded the farmer.

"Courtin', sir."
"Courtin'? Courtin' with a lantern? Huh, you fool, I never used a lantern when I went courtin'!"

"No, sir," replied the farmhand as he moved off, "we can all see you didn't."

A MAN'S TALK TO MEN

By
REV. DR. J. L. GORDON



Cause and Effect

THERE is the Law of Cause and Effect in the realm of character and achievement. Said Cicero to Mark Antony: "Balls, banquets, concerts, entertainments and processions—these are pleasant diversions, but they must be paid for." Lord Campbell, when a young man, in refusing an invitation to spend a Sunday in the country, wrote: "If I am to succeed in my profession, I must be in my office when others are in the theatre, I must study when others are asleep, and I must remain in town while others are in the country." Certainly! He had discovered the law of success in his profession. A California newspaper reporter, who interviewed a famous American tenor, unwittingly listened to an exhortation which proved to be as wholesome as a good sermon: "I like wine, but I must have regard for my voice; I like cigars, but I cannot ignore the laws of health in relationship to my voice; I like rich food, but my voice, my voice, sir, is more than all these!"

Slender

FRIEND, don't believe all you hear concerning your neighbour. Remember the "four discounts" recommended by Dr. T. DeWitt Talmage. First, a discount of twenty-five per cent for exaggeration. Second, a discount of twenty-five per cent for the spirit of gossip. Third, a discount of twenty-five per cent for the pressure of overpowering temptation. Fourth, a discount of twenty-five per cent to cover your ignorance of the facts on the other side of the case. Richard Baxter wrote these words in his advanced years: "I see that good men are not so good as I once thought they were, nor bad men as bad as I once imagined." They said concerning Stephen Girard that he was mean, close, shrewd, and exceedingly economical, but this same strange and eccentric captain of industry was planning a great college for the youth of America.

Careless Words

LORD Byron, when a youth, heard a certain Miss Chaworth drop a remark which could have no reference except to himself. He was intensely interested in the young woman—and these were the words which he accidentally heard: "Do you think I could marry that lame boy?" The words possessed a double sting; they were spoken without necessity and they were addressed to a servant. She need not have said it even if she thought it, but she said it and said it to one who, in the very nature of the case, was unworthy of her confidence. How cruel some people are. Count Tolstoy was a homely boy. His neighbours and friends laughed at his homeliness, but he wept over it in secret.

Smile

THE human face has a universal language. A loving smile, smiled by an American woman or by a Canadian gentleman, in a humble home in China, does not need to be translated into Chinese. Everybody understands the language of a tear, the symbolism of a smile, the unuttered meaning of a frown, the threatening emphasis of a scowl, the suggestive expression of a glance or the plaintive music of a sigh. The face has a language all its own and it is a universal language. As George Eliot has well remarked: "A suppressed resolve will betray itself in the eye."

Personal Influence

AN old preacher said to evangelist "Sam" Jones: "In my first charge, and during the first six months, I married one of my Christian young men to a worldly minded, unchristian girl; and also one of my Christian girls to a worldly minded and unchristian man. Inside of six months the Christian girl had brought her husband into the church, while the gay and giddy girl had carried her husband out of church." Oh, Influence! What a mighty force art thou! Who will write a poem on "Influence"? Nobody can measure the influence, for good or for evil, of one personality on another. Tennyson said concerning his wife, "The peace of God came into my soul the day I wedded her."

What's the Truth?

TRUTH is relationship, and a perfect relationship means peace in the soul, equipoise in the mind, and beauty in the life. Truth in the realm of music means harmony; truth in the realm of architecture, proper proportion; truth in the realm of colour, perfect blending; truth in the realm of mathematics, exact calculation; truth in the physical realm, grace in action and beauty in form. Truth in repose is philosophy. Truth in operation is love. Truth in manifestation is grace and beauty. Truth in the social realm brings peace. Truth in the political realm guarantees progress. Truth in the commercial realm is the foundation of all genuine prosperity.

Character in the Face

I AM afraid of the face which is hard. "I will never forgive her as long as I live!" said a woman whose face of granite revealed a heart of stone. "I'll have my pound," exclaims Shylock in Shakespeare's "Merchant of Venice," and the hatred in the face and the vengeance in the eye arrested our gaze more than the empty scales and the glittering knife which were to cut and weigh the "pound of flesh." The man who "gets even" with his enemy drops to his enemy's level. Hatred is contraction. Love is life. A grudge is a self-inflicted curse. The memory of a wrong, fondly fostered in the secret hours of thought, will take the colour out of your cheek, the light out of your eye, the expression out of your face and rob you of your peace.

Citizenship

JOHN Morley in his life of Cromwell remarks concerning John Pym, the great parliamentary leader, that "he thought it a part of a man's religion to see that his country was well governed." How out of tune with present circumstances such a mortal would be in the easy-going Christianity of our modern civilization. We have the affirmation of Mr. Bryce, the historian, for it, that modern citizenship has failed in Europe and America because of three great evils—indolence, selfishness and party spirit. The real truth is that the fighting saint has retired to the sleeping car and the well-groomed porter of social respectability watches over him. Oh, for the voice of a prophet! Oh, for the thunder tones of Carlyle as he exclaims: "Are there not in this nation men enough to venture forward and do battle for God's truth versus the devil's falsehood?"

Character

WHEN Miss Matthews, of Broad Oaks, a rich heiress, became engaged to Philip Henry, the father of the young woman announced himself as unqualifiedly opposed to the match, and, referring to Henry and his ancestry, said, "I know not, daughter, I know not from whence he came!"—But the brave girl answered: "I know where he is going and my soul says 'Go with him.'" Oh, fair maiden, when you link your destiny with another, it is well to know "where he is going." Build your social superstructure on the granite foundation of character and there will be no such thing as "a moral collapse" in the stress and strain of life's pilgrimage. Character is the only guarantee in the commerce of human relationships. Character commands respect and respect is the corner-stone in the Temple of Love. Beware of the person whom you emotionally love but mentally do not respect.

A Great Purpose

NOTHING glorifies life like a noble purpose. Joshua Reynolds said to an aspiring young student: "Finish one picture and you are a painter." An ancient genius, whose skillful hand caused his own peculiar type of beauty to glow on many a piece of ordinary canvas, began each day with the exclamation: "Joy, joy, joy, I am to spend this day as an artist—painting." Michael Angelo, at the advanced age of eighty, dares to undertake a new task, even the building of the greatest cathedral that ever lifted its spires of gold beneath nature's universal arch of blue. Oh, the inspiration of a noble purpose!

Don't Be Disloyal

YOUNG man, don't be disloyal to the commercial concern which employs you. Elbert Hubbard puts it straight when he says: "If you work for a man, in heaven's name, work for him. Stand by the institution which he represents. If you must vilify, condemn and eternally discourage—why, then, act like a man and resign." A merchant prince in a neighbouring city was called upon by a poor fellow out of work—"wife sick" and "children hungry," and so on. The merchant turned to the head of a department standing near by and said: "Give this man something to do." The department manager demurred, saying, "We have not the slightest need for anybody and our department pay sheet is overloaded now." But the merchant became impatient: "The man is poor, his wife is sick, his children are hungry, he can't find work—make room for him—put him in somewhere." So they placed him in a corner to sweep, dust and pack, at ten dollars a week. Result? Inside of a month he was charging his employer with "injustice." What was ten dollars a week for a man with a wife and four children?—Of course.

CLEARANCE

Just a few of these premiums left over from our regular offers. They represent the best we ever had. Any one listed here would make a splendid Christmas Gift. They won't last long at these give-away prices. Better decide to-night. If you are already a subscriber we will extend your subscription from the end of the present one. Just cut out the offer that appeals to you most, write your name and address on the edge of it, pin your remittance to it and mail—but you must hurry! We will send your money back if the offer you want is sold out. Remember, every offer shown here includes the Canadian Thresherman and Farmer—your magazine—for THREE WHOLE YEARS. Will you attend to this now?

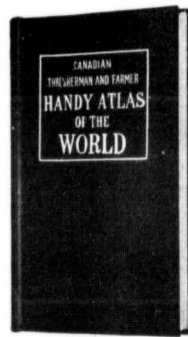
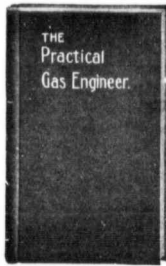
I enclose \$1.95. Send this offer to name and address in margin.

\$4.00 for only **\$1.95**

The Practical Gas Engineer

Contains 175 pages of practical instruction on all classes of Gas Engines, covering 500 different points on the subject, with illustrations, giving errors to be avoided in the construction of, and how to erect, operate, and care for Gas Engines and motors of every type. Cloth bound, pocket edition.

| | | | |
|--|-------|--------|-------------|
| Practical Gas Engineer | | \$1.00 | |
| Canadian Thresherman and Farmer, THREE YEARS | | 3.00 | 1.95 |
| | | \$4.00 | |



\$4.00 for only **\$1.95**

HANDY ATLAS OF THE WORLD

A splendid reference to all countries of the world, includes all war maps, also the principal cities are listed, and a quantity of other information pertaining to the different countries. Nicely bound in red cloth covers.

| | | | |
|--|-------|--------|-------------|
| Handy Atlas of the World | | \$1.00 | |
| Canadian Thresherman and Farmer, THREE YEARS | | 3.00 | 1.95 |
| | | \$4.00 | |

I enclose \$1.95. Send this offer to name and address in margin.

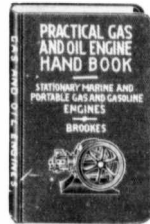
I enclose \$2.20. Send this offer to name and address in margin.

\$4.50 for only **\$2.20**

PRACTICAL GAS AND OIL ENGINES

This book is along the same lines as the Practical Gas Engineer, but is much more complete and includes Oil Engines. It gives Gas Producers, Valve adjustments, methods of ignition, cooling apparatus, etc., shows how to take diagrams and calculate results from them. A really first class book.

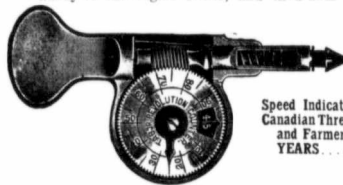
| | | | |
|--|-------|--------|-------------|
| Practical Gas and Oil Engines | | \$1.50 | |
| Canadian Thresherman and Farmer, THREE YEARS | | 3.00 | 2.20 |
| | | \$4.50 | |



\$4.50 for only **\$2.20**

TABOR SPEED INDICATOR

The urgent need of a good, simple stop motion, revolution counter, that can be put to any use that the highest class of indicator can be used for, has brought out this little instrument. This is very handy to the engine owner, and thousands have been sold in Western Canada.



| | | | |
|--|-------|--------|-------------|
| Speed Indicator | | \$1.50 | |
| Canadian Thresherman and Farmer, THREE YEARS | | 3.00 | 2.20 |
| | | \$4.50 | |

I enclose \$2.20. Send this offer to name and address in margin.

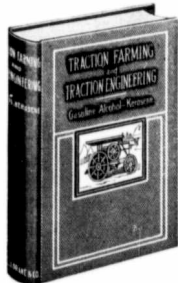
I enclose \$2.50. Send this offer to name and address in margin.

\$5.50 for only **\$2.50**

TRACTION FARMING AND TRACTION ENGINEERING

Gives you the workings of nearly every tractor built and illustrates them. Also shows farm water supply diagrams, electric lighting systems, etc. The science of threshing fully explained. See page 3 of our October number.

| | | | |
|--|-------|--------|-------------|
| Traction Farming | | \$2.50 | |
| Canadian Thresherman and Farmer, THREE YEARS | | 3.00 | 2.50 |
| | | \$5.50 | |



\$5.50 for only **\$2.50**

POWER AND THE PLOW

Covers all the sources of farm power, the types of traction, the horse, fuels, etc. It tells you how to operate your tractor so as to make it pay. It is just the book you have been looking for. It brings you the latest in power farming—in fact it is an exhaustive treatise on the subject. If you own a traction engine you need this book. If you intend to own one, get it and become posted.

| | | | |
|--|-------|--------|-------------|
| Power and the Plow | | \$2.50 | |
| Canadian Thresherman and Farmer, THREE YEARS | | 3.00 | 2.50 |
| | | \$5.50 | |

I enclose \$2.50. Send this offer to name and address in margin.

Send all Coupons to E. H. HEATH CO. LTD., WINNIPEG

You saw this advertisement in this magazine. Don't forget to say so when writing.

FREE
NEW
Big Bargain Catalog

Send us a Postal Card and we will send you a copy of our NEW BIG FREE CATALOG just off the Press and explain to you fully how you Can Get any Range or Heater for \$3.00 Cash.

This wonderful catalog shows hundreds of New Designs in Furniture and Stoves and Lowest prices on Vehicles, Harness, Groceries, Hardware and General Merchandise. You cannot afford to be without it as it guarantees you a saving of at least 20 to 50 per cent.

DOMESTIC QUEEN BLUE STEEL RANGE



BURNS WOOD or COAL
\$36.75

Body is made of heavy Wellsville steel, full Asbestos lined and relined with heavy steel. The firebox is extra heavy, well ventilated. Has Duplex grates and extended fire box for burning wood. Oven is well proportioned; is braced across top and bottom to prevent warping. Has large copper contact reservoir and large cooking surface. Top of stove is guaranteed against warping or fire cracking. Has elaborately milled, high closet, large warming compartment, two tea pot shelves and large shelf along top. We fully guarantee this stove and ship on 30 days approval. Return at our expense if not satisfactory.

READ OUR UNCONDITIONAL GUARANTEE ON ALL OUR STOVES AND HEATERS.

| No. | Size | Price with oven. |
|-------|------|------------------------|
| 49-16 | 4x9 | 16x20x13 \$36.75 |
| 49-18 | 4x9 | 18x20x13 39.75 |
| 69-20 | 6x9 | 20x20x13 42.75 |

Solid Oak Rocker, 7.25

Entire new design in Parlor Rocker. Has full spring seat and large shaped back. Covering is a high grade imitation leather. Frame is strongly braced and made of Quarter Cut Oak, golden finish. A big rocker for little money. Regular \$9.75 No. 1332 **\$7.25**

7-Piece DINING ROOM SET \$17.55

Made of hard maple, finished surface oak, quarter-cut grain, golden finish. Table has 45-inch top, extends to 6 feet, has large, heavy base, broad legs securely fastened to center drum, six chairs have shaped saddle seat, double stretchers, neatly shaped back panels, fancy turned back posts securely fastened to seat with brace arms.

One of the big values found in our catalogue.

Price, complete set, seven pieces **\$17.55**

DON'T PURCHASE your Furniture until you HAVE COMPARED OUR PRICES. OUR MOTTO, SATISFACTION OR MONEY REFUNDED.

The Farmer's Supply Co., Ltd.
Dept. C.T.
179 Bannatyne Avenue, Winnipeg

The Farmers' Supply Co

That farmers can materially benefit their situation and overcome their difficulties of increased cost of living by buying their home and farm requirements from a reliable and reputable concern is our belief and is being made clear to our readers by this paper in the "Xmas" issue.

We have taken this problem up with the **Farmers' Supply Company Limited**, of Winnipeg, and thereby came to our conclusion.

The Farmers' Supply Co., Ltd., as our readers are aware, have for a number of years past been dealing in farm and home requirements of every description. They are continually adding new lines for the benefit of Western farmers and you will now find in their catalogue, copy of which everybody can procure upon writing to them, that it covers an extensive line of requirements for every use.

In discussing the methods used by the Farmers' Supply Co., Ltd., in dealing with farmers, we notice that their main aim and object in any deal, regardless of the amount involved therein, is **satisfaction**.

Their contract for enormous quantities and in some cases control the output of entire factories.

They guarantee customers satisfaction or money and charges refunded.

Hauling freight from the Farmers' Supply Co., Ltd., to points in Saskatchewan, Alberta, and British Columbia, is far, but they guarantee safe delivery and will replace free of charge any article damaged in transit.

On stoves they have an unconditional guarantee, safe delivery, free repairs, and should your stove be destroyed inside five years by fire or tornado, you receive another stove free of charge.

Co-operation has been an outstanding factor in the upbuilding of that great institution and thousands of farmers can well remember the invaluable advices received from the Company on how to save money by purchasing in unions or groups from one district.

The Farmers' Supply Co., Ltd., since commencement of business some 7 years ago, made it a point to advise the farmers of how they could save considerable money by getting together when making their purchases. Now it is quite visible that the Western farmers are showing their loyalty and appreciation to the Farmers' Supply Co., Ltd. Not only is the Company kept busy supplying merchandise to the thousands of farmers who order their catalogue and the various grain growers' associations who purchase car lot quantities of sugar, salt, twine, fencing, posts, etc., but a good portion of their business is de-

pending upon the hundreds of club orders received made up by the different farmers from their respective districts or neighbors in the same village.

We might add that this is an excellent means of getting lower prices and less freight charges, this condition is beneficial to farmers particularly who reside in rural points.

Ordering from the catalogue of the Farmers' Supply Co., Ltd., is as simple as A.B.C. In selecting your articles you have no need to fear or worry as to the appearance, quality, etc. They give you a guarantee with every article purchased and if on arrival of shipment you are not entirely satisfied, you merely have to notify them that such is the case and your money and freight charges are refunded without any delay whatsoever.

We know of hundreds of farmers who have made these savings and are doing so daily. We have no hesitation in saying that you cannot secure merchandise of a better class than that sold by the Farmers' Supply Co., Ltd., of Winnipeg. Their reliability is established from Ontario to British Columbia.

In conclusion may say that when in Winnipeg it will pay you to visit the Company who have 16,000 square feet of show room, displaying numerous lines of furniture, stoves and vehicles.



As Agriculture Preceded, etc.

Continued from page 28

he is economically the strongest division of the population. Whatever benefits him must eventually benefit his fellow citizens of every vocation. Whatever harms him must strike, through him, at all who look to him for the necessities of life.

No better evidence of governmental wisdom has been afforded in our history than the action of the Federal Government in encouraging the cultivation of its hills and prairies by the old homesteaders. To-day there is no better field for intelligent governmental action than in the solution of the problems which press upon our farmers.

Unless history lies, unless the law of supply and demand is repealed, the future before the American farmer will be rosy with the realization of better things. Our population is increasing faster than the area of our arable lands. The time is not far off when there will be no more virgin acres to be tilled. And if the American farmer is awake to his opportunity he will hold fast to his land until the logic of circumstances brings him the rich reward that must eventually be his. For he holds "the one indestructible asset that the nation

Continued on page 50

🔔 🔔 🔔

Christmas= time . .

Many thousands of thoughtful men, at this time of year, will be thinking of the best way of remembering, by sensible gifts, those whose welfare they hold most dear.

No thoughtless extravagance this year!

Where, in gifts of *real* utility, could one be found more appropriate than Life Insurance? At Xmas time—the time of home reunion—of unselfish consideration for the comfort of others—the thought of Life Insurance is entirely timely.

Permit The Great-West Life of Winnipeg to give you information—showing how low is the cost of Life Insurance, how certain and profitable the returns. The Company is known for the exceedingly attractive conditions of its Policies, low premiums and high profit returns. Mention your age and full information will be mailed without the slightest obligation on your part.

🔔 🔔 🔔 🔔 🔔 🔔 🔔

Safety
And Satisfaction
First!

*Beats Gasoline
Equals Electricity*

**WONDER
MANTLE LAMP**
100 Candle Power
Burns 70 hours on one gallon of coal oil. Highly polished brass font. Complete, only **\$3.00**

Burner, complete with chimney and two mantles and round wick to fit your old lamp. **\$1.75**

Give size of your font when buying. Satisfaction guaranteed or money refunded.

Wallace
McCormack & Co.
WINNIPEG

An Opportunity Worth Considering . .

We guarantee to teach a complete business course in

Millinery or Dressmaking

in from 30 to 70 lessons. Why spend months, yes, years, and then not be thorough? Our lessons are simple, practical, speedy and sure. No worry; only 70 lessons to learn and you have the entire trade at your command. Day and night classes. Ostrich feathers cleaned, dyed and curled—any shade. Write for information to

A. MALCOLM, Manager
551 Portage Avenue - Winnipeg

Personal to the Reader . . .

From the Staff of The Canadian Thresherman and Farmer . . .

In times like these when the word "War" is upon practically every lip—when the world is divided against itself—when all individual differences must be sacrificed to those of the nation, we, as dwellers in a land where "Peace and Plenty" reign, should offer up a solemn prayer of thankfulness that our lot has been cast in pleasant places. Our policy should be one of helpfulness. We should strive to give of the best that is in us. *This will be the policy of the Canadian Thresherman and Farmer for 1915.*



E. H. Hauwiesau
Managing Director

The farmer and the farmer's wife are deeply concerned as to the best source of supply for everything that cannot be made or grown on the farm. The advertising columns of the "Canadian Thresherman and Farmer" give the very best information on this point. Moreover, this journal protects its readers against loss from any advertiser making use of these pages; it is for this reason alone the best possible purchasing medium to the farmer who is seeking guidance to the best market.



H. B. Gray
Advertising Manager

All joy at Christmas, and may 1915 prove the greatest year in your history is my earnest wish.

As we think of our readers, we have one ambition—to fill them with food they can assimilate to the end that it will build up a robust and happy manhood and womanhood. Politically our "party" is the STATE. We believe that the brains of every man are needful to the State and that the voice of every honest man should be heard in its affairs. It is one of our oldest fictions that human thought can be corralled into party creeds. We know something about a few things but we are still in the dark about most things. We will lend you our light but we need yours. *Let us hear from you in the New Year which we trust will be the greatest in our history.*



J. S. Duthie
Editor

The Circulation Department says you should have three hundred and sixty-five days of service with every year of your subscription. If you have the slightest reason to doubt that, make us prove it. You take *The Canadian Thresherman and Farmer* because you want to read it and get the benefit of its contents. If the magazine reaches you a week or two later than it should, it is just that much less valuable to you. You can help to make its delivery much more efficient and we will greatly appreciate it if you tell us when we fall down.



A big, cheery Christmas this year, a chance to get a good start on the first of January, and a 1915 filled with prosperity and health for you is the sincere wish of this department.

Volney B. Jones
Circulation Manager

OUR LITTLE CONDUCTED BY Cousin Doris. FOLK

Girls' Cozy Corner

A Merry Christmas.

By Margaret G. Hays

"I've hung up my stockin' an' said 'Good-night.' An' all my folks are sleepin' tight. Now I'm goin' to watch closely, just because I want to see 'f Santie Claus. So out o' bed I'll softly creep, 'Cause ever'body's fas' asleep. I hanged two stockings up, 'cause, see, The white one 'at belongs to me Is far too small. I hope 'at he Will soon come down the chim-nee-lee. 'Fraid Mother wouldn't 'prove o' this, But I want to give him jus' one kiss.' Dear, dear! the sandman spoils the plan, Soon fast asleep falls little Nan. The fire glows cozy and warm Upon the little night-gowned form When down the chimney with his pack Hops Santa like a jumping jack. 'Why, see who's here?' Old Santa said, Then carried Nannie off to bed. Tucked her in warm, dear little miss, Then softly took one loving kiss, 'She waited up for me, dear tot.' Laughs Santa, 'So I'll leave a lot Of all the best my pack contains And take that sweet kiss for my pains.' 'Merry Christmas!' Nannie cries As she opens her sleepy eyes, 'Oh, see what Santie's left for me! Both stockin's full as full can be, An' round my bed, upon the floor, Are toys an' 'dollies—more an' more Dear Santie Claus has sure been here. Maybe I'll stay awake nex' year. Now I'll get dressed an' have some fun, So Merry Christmas, every one!"

The Queer Little Underground Family (By Cousin Doris)

He was such a queer little fellow with toothpick arms, toothpick legs, a funny, wrinkled brown body, and tiny black specks for eyes. His brother looked very much like him, only his body was more crooked. You see they had come from a very warm climate, so hot that neither you nor I could live in it for one minute. Their life had been very strange. When they were babies they lived in a cave under the ground where it was cool and moist, and all the little brothers and sisters were tied to their mother so they could not get

lost when she went out into the sunlit world for food and nourishment.

But, strange to say, she never allowed her little ones to go with her; she just left them fastened together under the ground while she pushed her way up with difficulty till her eyes fairly burned when she came in sight of the bright, dazzling world.

She was a busy little mother for her family must be grown and ready for the little girl's Christmas stocking. There were many households in this community like her little one for they were the subjects of Santa Claus. He was their great King and he had ordered that every girl and boy in this strange place must be big and ready for him by Christmas.

This little mother was a loyal subject. She almost burst her little body—so eager was she to take in all the sunshine possible.

Each day she grew stronger and larger and sent more nourishment down to her little children in the cave. She never let loose of the string that tied them to her because she feared they would die if they could not feel her near them. If the little babies grew bigger and bigger every day, and how the mother enjoyed the warm sunshine and gentle rains, till a big enemy tried to choke her one day. She thought she would die. Finally a nice little girl, in a pretty pink pinafore, came along and took the enemy by the head and threw it over the fence.

"I wish I could see the mother's face," said one of the little babies under the ground. "She has been gone a long time and though we know she is near us because we feel her and she sends such nice food to us, she never comes down to see us."

They were really children no longer, but had grown to be as large as their mother was before she had ventured out into the world.

"Oh, see, our house is breaking open," exclaimed the brother.

"Why do you tell me to see! You know we have no eyes—since we do not need them in the dark."

"But feel the light," answered the brother.

Then all the little children huddled together because they felt something terrible had happened.

Santa Claus had found the little house under the ground. Why couldn't he find it? The mother pointed right to it all of the time. He discovered the little children and put them with hundreds of other little children. After a while he took them all to the hottest climate you could imagine where they suffered so that their bodies were burned brown, and the heat just went through them till their insides were baked through and through.

Presently, when they were sure they would burn up, a great black door opened wide, and oh, how glad they were to get out into the cool open air. But their little bodies were so hot and dry that they knew they could not grow any more. They hardly recognized their brothers and sisters. Santa Claus then spread them out on a shelf and they soon felt cool and more comfortable. There they stayed until Christmas eve, when Santa Claus sent for them. He put them into the little girl's stocking.

She made arms and legs for them out of toothpicks, and little specks of ink for eyes, and stood them in a row on the table; such a queer looking family. One was bent over almost in two, another had a big head and little body, and one big, tall fellow looked just like a camel so the little girl made four legs for him. Bye and bye they all came in sight of a gate of pearls. Their legs and arms fell off, and they entered a large room with a velvet floor and a red ceiling. But the floor was so slippery that they all fell down a long red lane, and that was the last of the peanut family.

Santa on the Way (W. D. Nesbitt.)

I can hear him singing faintly, And he urges on his deer, And his song is mellowed quaintly As he measures strike the deer. But the lilt of it is jolly, And the words of it are gay, 'Get the mistletoe and holly; I have started on my way.'

I can hear the hoof-beats thudding, As the snow is flung behind, While the laden sleigh is scudding With the swiftness of the wind, And the echoes now are ringing Broken murmurs of the song That old Santa Claus is singing While the reindeer speed along. 'Little fellow, little fellow, while you sit and dream of me, And the marvel of the morning that shall show the wondrous tree, For your trust in all the fancies of the shadow and the gleam, I am starting on my journey down the highway of your dream.'

Notice The prizes of the year will be sent out in time to reach the prize winners by Christmas.—C.D.

Jack's Bravery (By Pearl Richmond Hamilton)

"'Fraid-calf! 'fraid-calf!' sneered Jack as his sister jumped around and screamed. 'I don't care,' Bess cried, 'those wiggly worms are just horrid! ugh!' and the little sister shivered and sniffled.

"Girls ain't no account—they're 'fraid of even little worms," snarled the brother teasingly, picking up a worm and holding it out toward his sister.

"Well, I can't help it—those ugly worms just make me crawl," and Bess shrugged as if she felt one just then creeping up her back.

"Girls are such big cowards, I wouldn't be a girl for anything. Why would you ever do it if you saw a burglar?" said Jack stretching himself up haughtily as his trembling little sister huddled down in the big arm chair.

"Well, I don't know, Jack, but, please—take those ugly worms away," coaxed Bess rubbing her trembling hands.

But Jack began to dissect the little crawling things by pulling off their legs and heads. "This was more than Bess could endure. 'I don't know what I'd do if a burglar came into our house, but I think boys can be cowardly, too, when they are cruel enough to pick a poor helpless worm to pieces,' answered the timid little sister. 'I feel so sorry for that poor little worm. You are big and it is little and can't defend itself. Why don't you pick on some one your size?'"

Just then Uncle Tom walked in. "Say, Uncle Tom, Bess is afraid 'of worms. Ain't girls awful" towards questioned Tom pulling another part off from the body of the worm.

"Uncle, I think boys are cowards, because they torture little helpless worms," put in Bess wiping a tear off on her sleeve.

"'Cry-baby-'fraid-calf-girl!' teased Jack throwing the last piece of the worm out of the window.

"Now, Uncle Tom, you know boys are brave and girls are cowards, don't you?" Uncle Tom stroked his beard thoughtfully.

"Well children, I am not prepared to answer that question now, but I will a week from to-day. Will that do?" answered Uncle Tom handing them both some sweetmeats—Christmas bait.

The boasting brother and the timid sister ran off to play while Uncle Tom sat watching the burning coals in the grate.

A few evenings later Jack and Bess sat near the fire place together. The house was empty, for Uncle Tom and Aunt Mary had gone out to finish their Christmas shopping.

You know the children were spending their holidays at the home of their favorite uncle.

"Say, Jack, aren't you afraid to stay here all alone?" asked Bess, listening for queer sounds.

"Ah no, 'fraid-calf-girl. Boys never are afraid of anything. We're brave," and Jack pulled out his pocket-knife and examined the blade. Bess shivered.

"But you know Mother and Father never left us all alone evenings," continued Bess drawing her feet under her.

"Well they don't know how brave I am," answered the excited brother as he reached into the rack for his uncle's cane—the very largest one.

"Well, I know," whimpered the frightened sister, "but I don't think it's 'zactly proper for us to stay here all alone."

Bess rubbed her sleeves across her nose. "Now don't be 'fraid Sis, I'll take care of you—if a burglar comes I'll wack him right on the head with this cane and then I'll cut his heart right out with this knife. Then he'll be dead and when Uncle comes home he'll call me a big brave man for killing a thief," boastfully answered Jack, flourishing the cane in the air at an imaginative burglar standing before him.

HANDSOME GOLD-PLATED BRACELET FREE to the girl or lady selling 40 sets of our Birthday Presents... TORONTO Novelty Co., 214 Dundas St. W. Toronto, Ont. 74

FREE FOR GIRLS GIRLS—Aren't you just longing to own this beautiful doll... THE REGAL MANUFACTURING CO. Dept. H. 314 TORONTO, ONT. 6

Just then a thump at the window startled the two children.

A masked man opened it and climbed in.

Immediately Jack shot out of the window and quickly disappeared from sight.

Bess looked up quietly at the big terrible man and asked,

"Be you a burglar?"

"That's my profession," answered the man, taking out a revolver.

"Let me see your gun, I never handled one and I want to see if it's like Jack said he was going to get when he goes out among the Indians."

At this remark the fierce-looking fellow unloaded his revolver and handed it to the sweet fearless child.

"Here, child, I never did such a thing before but you may see it," he replied taking some tools out of his satchel.

Bess examined the weapon curiously.

"My! it's shiny—wonder if Jack will keep his nice when he goes out into the Big West. You know he's going to kill bears and tigers and burglars and Indians. Jack's awful brave—he isn't afraid of anything. He says if a burglar come he'd just kill him and cut his heart out!" exclaimed the little girl, looking up at the awful man.

"Aren't you afraid of me, little girl?" questioned the big man feeling his mask.

"Oh, no, I know you wouldn't hurt me. You're too nice and good, besides I like burglars."

At this remark the Awful Man dropped into a chair.

"Couldn't you take that face veil off, Mister, I want to see how nice you really are?" urged the little girl placing the revolver under her dress.

The stranger removed the mask and rubbed his hand across his brow.

"Have you any little girls?" asked Bess looking at him very earnestly.

"Yes, little girl, I have and I wish I could see her to-night."

The big man winked very fast.

"Where is your little girl?"

"Well, she is away off with her mother?"

"Why isn't she near you? Why aren't you at home?"

The big man leaned over and wiped his blinding eyes with his handkerchief.

"Well, my little girl, her mother did not like my profession, so she went away from me," frankly confessed the strange man.

"But don't you love your little girl like my father loves me?" asked Bess much moved.

"Love her!" exclaimed the Awful Man excitedly, "I love her more than I can tell."

"Then don't be her burglar father any longer," said Bess going over to him, "Be a good father to your little girl," and the big man felt a sweet kiss on his burning cheek.

Just then the door opened and there stood Uncle Tom.

The tools of a burglar lay on the floor, two strange grips partly opened near the window might have been filled with silver and jewels. On the arm chair a revolver shone under the light, while before him sat the Awful Man holding Bess's little hand.

"Uncle Tom, oh, Uncle Tom!" shouted Bess running up to her uncle. "This is Mr. Burglar, but he's going to be good now, really he is awful nice, Uncle, he's got a little girl just like me!"

Uncle Tom stood amazed.

"I give myself up to the law," remarked the stranger. "Sir, this little girl is the bravest person I have ever seen in all my experience. She has unarmed me and really robbed me of my black profession. This will be my Christmas gift to my wife and child."

Then the Awful Man told Uncle Tom the whole story.

"But weren't you afraid?" asked Uncle Tom taking his little girl proudly in his arms.

"Yes, at first I was but I knew if I got his revolver he couldn't shoot me so I pretended I wanted to see it. Then," she continued, "I thought burglars must have hearts and feelings like other men and so I just pretended to like him at first and I thought I'd keep him talking till you came."

The Coming of a Classic

Every boy in Canada should be familiar with Earl Kitchener's advice to his men. It will go down in the history of the ages as a classic.

Earl Kitchener's Advice to His Soldiers

You are ordered abroad as a soldier of the King to help our French comrades against the invasion of a common enemy. You have to perform a task which will need your courage, your energy, your patience. Remember that the honour of the British army depends on your individual conduct. It will be your duty not only to set an example of discipline and perfect steadiness under fire, but also to maintain the most friendly relations with those whom you are helping in this struggle. The operations in which you are engaged will, for the most part, take place in a friendly country and you can do your own country no better service than in showing yourself in France and Belgium in the true character of a British soldier.

Be invariably courteous, considerate and kind. Never do anything likely to injure or destroy property, and always look upon looting as a disgraceful act. You are sure to meet with a welcome and to be trusted; your conduct must justify that welcome and trust. Your duty cannot be done unless your health is sound. So keep constantly on your guard against any excesses. In this new experience you may find temptations both in wine and women. You must entirely resist both temptations, and, while treating all women with perfect courtesy, you should avoid any intimacy.

Do your duty bravely. Fear God. Honour the King.

Kitchener.

Things You Ought to Know

Edward VI. was a boy of nine when he became king.

When Oliver Cromwell lay dying he said: "My work is done—yet God will be with His people."

The English people knew nothing about Christianity until long after Christ was born. About 600 A.D. a monk, struck by the sad sight of some English boys being sold for slaves in the market place of Rome, set himself to think out a plan for sending the news of Christianity into the boy's country. He became Pope Gregory the Great, and there are still to be seen in Rome the steps from which he sent Augustine to preach Christianity to the English.

Edward the Confessor first built Westminster Abbey.

The aim of the British Empire is to maintain justice and order, and to help the people over whom they rule to be prosperous.

When Britain took possession of India, the princes who had not brought on the war were allowed to remain the lords of their own realms, on condition that they did not rule as tyrants or try to stir up war.

A boy of to-day is the heir of all the ages, inheriting all the treasures of learning and the achievements of the past.

A thousand years ago and more, in the days of Alfred the Great, the English found out that it would be useful to have ships built for fighting.

Henry VIII. was the first to build a regular fighting fleet.

Nowhere in the world are floors kept more spotlessly clean than on a great warship.

The engines of the big battleships do the work of 30,000 horses.

In time of war steel nets are let down round the battleship to catch the tor-



FREE COMPLETE HOCKEY OUTFIT. Boys—don't pay \$2.00 or \$3.00 for a hockey outfit. When you can get ABSOLUTELY FREE, this magnificent outfit complete, consisting of a pair of splendid skates, polished steel hockey skates (full sized), a good lively puck, and a strong, well-made rock rim for boys stick, and in addition every boy can receive as a extra reward, a dandy pair of well padded hockey gloves with fingers and wrists protected by same materials covered with leather, or a pair of strong, heavy hockey boots with specially reinforced uppers and reinforcement across the instep. WITH THIS SPLENDID OUTFIT YOU WILL BE THE BEST EQUIPPED PLAYER ON THE TEAM. WRITE TO-DAY before you forget and we will

send you by mail just 30 handsome bottles of our delicious Royal Japanese Perfume to sell among your friends at only 10 cents a bottle. Six different odors—White Rose, Aradian Violet, Lilac, Carnation, Heliotrope, etc.; no trouble at all to sell; everybody wants two or three bottles. You will sell them all in an hour. Then return our \$3.00 and you will receive at once, the complete hockey outfit of fine quality skates, rubber sock and hockey stick which gives you the opportunity to also win the additional present of five hockey gloves or hockey boots without selling any more goods. Hurry boys! We arrange to send payment of all charges on your outfit right to your door under our reimbursement plan.

DEPT. H. 315 TORONTO, ONT.

pedoes of the enemy, and thus protect the ship.

St. Boniface, an English monk, who carried Christianity to the nations of Germany in ancient times braved great dangers. To prove that their gods were no gods, he undertook to destroy the sacred oak of Geismat—and chopped down the tree before the heathen priests.

"LITTLE" BELGIUM

None of the other European countries equals Belgium in density of population—the average being about five hundred and eighty-nine to the square mile.

The level plains of Belgium have furnished Europe with its battlefields for many centuries.

VEST-POCKET KODAK An Ideal and Inexpensive CHRISTMAS GIFT

For rectangular pictures, 1 1/2 x 2 1/2 inches. Capacity, 8 exposures without reloading. Lens, regular, meniscus achromatic, 3-inch focus, Special Zeiss Kodak Anastigmat f.8.9. Shutter, Kodak Ball Bearing No. 0. Brilliant reversible finder. All metal body, black enamel finish and black leather belows.

- The Price Vest Pocket Kodak, meniscus achromatic lens and Kodak Ball Bearing shutter, with Autotime Scale..... \$ 7.00 Vest Pocket Kodak Special, Special Zeiss Kodak Anastigmat lens, and Kodak Ball Bearing shutter, with Autotime Scale..... 25.00 Leather Case for Vest Pocket Kodak..... .75 Grain Leather Case for Vest Pocket Kodak Special..... 1.50 Hand Bag for Vest Pocket Kodak..... .25 De Luxe Bag, suede calf-skin, long straps..... 1.75 N. C. Film Cartridge, 8 exposures 1 1/2 x 2 1/2..... .20 Kodak Portrait Attachment.. .50

Full Instructions Included Free Illustrated Catalogue Mailed Upon Request Amateur Finishing a Specialty

STEELE MITCHELL Limited Dept. "T" 274 Carlton Street, Winnipeg

Name this magazine when writing advertisers

The forts constructed along the Meuse and Sambre form a continuous line of steel constructions. They are manipulated by powerful machinery, which causes them to disappear below the surface of the ground after discharging their tremendous guns. They were designed by the distinguished Belgian military general, General Braitmont, who was sent for by the Sultan to plan extensive fortifications along the Dardanelles.

Cross, Goulding & Skinner's PIANO BARGAINS



Excellent instruments at greatly reduced prices. Some slightly used, others second-hand and some partly paid for, these being sold for balance due.

AURAND & WIRTH, SMALL UPRIGHT Piano in chromed case. This piano has been thoroughly overhauled and put in excellent condition, \$145. Terms \$15 cash and \$6 monthly.

NEWCOMBE PIANO, MAHOGANY CASE. This piano taken in exchange. Cost \$450, selling for \$240 on terms; \$15 cash and \$8 monthly.

KRYDNER PIANO—RETURNED FROM short rental period. Regular \$375, selling for \$280; \$15 cash and \$8 monthly.

EVERSON PIANO, LARGE COLONIAL IN mahogany case, entirely new, varnish slightly frost checked. Regular price \$400, selling at \$300. Terms \$15 cash, \$8 a month.

\$550—NEW SCALE WILLIAMS PIANO—This instrument has been partially paid for. We are selling for \$365. \$25 cash and \$8 monthly.

\$750—ENNIS & CO. PLAYER IN FUMED oak. We are heavily stocked on this one style and must reduce the stock. This player is equipped with all modern automatic devices for proper interpretation of highest class music. Selling at \$600. Terms \$25 cash and \$15 monthly.

\$950—NEW SCALE WILLIAMS PLAYER Piano in figured walnut. \$8-note, equipped with automatic tracker, soft tone lever, melody buttons, loud pedal and sustaining tone lever. This player is the highest standard that is made by any company. We have used this player for one year in our player music roll department. We offer it at a reduced price of \$650, on terms of \$50 cash and \$15 monthly. Quarterly or yearly terms can be arranged on either of these instruments or a liberal discount for all cash.

TWELVE ROLLS MUSIC AND PLAYER bench included with each player piano.

A GENEROUS ALLOWANCE MADE FOR used upright piano on purchase of players.

PHONOGRAPH DISC WITH TWENTY (20) records; fine big tone; value \$62.80; selling at \$45; \$10 cash, \$7 monthly.

Mail orders given prompt attention. Delivery free in city. Freight paid to out-of-town points in Manitoba. Cross, Goulding & Skinner, Ltd. 323 PORTAGE AVENUE.

OUR WOMEN FOLK

CONDUCTED BY
PEARL RICHMOND HAMILTON

Christmas by Telegram

PEARL RICHMOND HAMILTON

A sleeping babe wrapped in blankets lay innocently beautiful on a bed near a dingy wall. At the window disfigured by children's finger prints, a little three-year-old shivered and trembled as her mother pinned the thin little red coat about her body.

"I'm hungry, mother," and the brown-eyed child looked up appealingly as the mother reached for a glass of water.

For the past week the child had grown accustomed to the glass of water in answer to her appeal for food and she patiently waited for her play in the cold room for the landlady of this particular boarding house had refused to heat the room since the little mother owed her for rent and board. About a week previous she had refused them meals. But the hungry child and mother patiently waited and hoped that a brighter time ahead would come.

Every morning for ten days the mother with her babe in her arms and the little three-year-old tugging at her skirts walked ten blocks to the employment Bureau where she waited all forenoon only to be told at the end that there was no work for her. She told no hard luck story and the women in attendance did not know she was hungry and penniless.

Scotch blood flows through proud veins and the backbone bears hardships without bending.

In the States somewhere reared an American husband a man who had deserted his wife and children. Fatherless children orphaned by a living father cry for hunger often when the "daddy" pays for a dinner served in courses.

"Will Daddy send for us Christmas, mother?"

"Perhaps," replied the mother looking sadly at the baby's face as unconscious smiles played around its mouth.

A letter worn from reading lay on the washstand and an empty paper sack aggravated the ache of heart and hunger. Yet not a severe line marked the face of the mother, not a murmur of complaint. Deserted by a heartless husband, alone with her two lovely children and nagged at by an ugly landlady, the little mother bravely faced obstacles that crush most women.

Hungry and tired she started out the next morning carrying her babe in her arms. And at the foot of the stairs little Mary refused to go further.

"I will not go up, they're going to take you from me," cried the child clinging close to her mother.

"No child, I'll never let you go from me, even though we starve together," urged the loving Scotch mother. "Perhaps someone in the country will send for us to-day. Just one more day. The Christmas star may yet find us."

One more morning of weary waiting and no work in view. Little Mary played about her mother's knee quietly and happily. Both babe and little girl had inherited their mother's sweet patient disposition. Though at times one could see the face flush and pale with suppressed emotion, the little woman conquered victoriously every time.

"I do not see how you bear up so bravely," one of the workers remarked.

"What's the use in being downhearted?" exclaimed the mother tying

baby's hood. "One never gains anything by giving way to trials," and baby's eyes opened wide. "See the dear little yellow shirt in a hoarse boy, lady, and the Madama of Patience bent to kiss the little fellow."

Let us hope that some day a big splendid son shall tenderly care for the little Scotch mother. Little hands keep the thrilling love chords tender, and the lullaby is the true song of life.

Humanity is more humane and richer in hope and the world is made habitable because a Baby smiled in the manger at Bethlehem. Life is evidenced by its product and in the midst of hunger, poverty and desolation the little Scotch mother lived in the hope of purpose and aspiration, too full of faith to indulge in morbid introspection.

"Thank you, lady, you are not to blame because there is no work for me," and mother and children turned to leave the room. All eyes at the Employment Bureau watched the trio as they passed down and out. A stubborn girl who stood near the desk resumed her arguments against country life.

"Why it's too lonely, I must have one," she urged.

How lonely an idea would be it if by chance happened to get into that head.

Another girl standing on one foot studied the bulletin board before her. She was looking for a snap. Every day

for five weeks she had posed before the "Card Wanted" notices but not one place among the many hundreds was quite easy enough for her. Her thoughts never soared higher than the bulletin board. She could not see the opportunity of seizing common occasions to make them great.

"No, I'll not take any of those places, the wages are too low." And she indignantly turned and walked madly toward the door. "You might find a decent place for me!" she exclaimed in a high voice meant for effect. It is the idle girl, not the worker who is always complaining that she has no chance.

"Will you go into the country?" asked the woman who registered the next girl.

"I can't, no I couldn't possibly go," she replied with both hands in her coat pockets.

"Are you alone in the city?"

"Yes."

"Have you any means of support?"

"No, I must work, but I can't possibly go into the country," and she tilted her chin at an impatient angle.

"Well, now, tell me the real reason why you must stay in the city?"

"I got a job, you see I have a job."

"I got a fellow and he don't want me to go away, you see," and the girl seemed relieved after her confession.

And so they continued to crowd around the bulletin board, each eager for some-

thing easy with big pay and little time. Three hundred places offered to girls who would not accept them and one brave little mother praying for just one home that would shelter herself and babe!

Between girlhood and motherhood there are lessons to learn.

"Dead and you'll not get anything to do as long as you walk the streets, you keep the children out of my way and if you don't get out of here soon you'll sleep in the street!" She was a woman who does not set foot to melody the little Scotch mother's landlady.

"You're a snark, pretender! to me that you're at the Bureau looking for work. You're don't nothin' of the kind, you with your husband's leavin' you and nothin' to live on. It's not a cup of tea you'll be gotten' in this house."

"Mother, let's think of the bread and cakes and good things we saw in the Christmas windows. Perhaps it will keep down the hungry feeling." Little Mary looked up into the mother's face for a reply.

"Very well, let's play dinner," and the mother lay the sleeping babe on the bed.

Into the atmosphere of stale soup, boiled cabbage and onioned beef, but into the presence of food just the same, the deserted woman with her children turned just for a moment, long enough to be scalded by the landlady's flow of abuse.

Contra-surgically up the stairs to the cold little room they went, thankful even for mere shelter. There is no greater accomplishment than the mastery of self.

"Mother, I remember the cakes and meats I saw in every window. I'll pick out the meat among them for you, the one with pink around it, and the turkey with cranberries will eat it all up, mother, you and I cause you see I'm all empty inside and it hurts." Mary's brown eyes, big from imagination devoured everything in the Christmas windows. The little mother was lost in the dreams of other days, Christmas memories. Sadness and gladness mingled in strange pictures.

Brilliant lights glistened on the artificial frost of the red and green tissue paper bells that hung on festoons in the gay restaurant. The perfume of fresh carnations enticed men and women to little square tables decorated with holly and Christmas ribbons. Melodious strains of an orchestra infused in the company emotional intoxication. It was a picture of Christmas cheer, without the Star of Bethlehem.

There was a powdered matron with a sparkling superb diamond at her throat and her self-satisfied husband whose appearance suggested comfort. At the next table a little chorist girl, dressed like a Christmas tree, performed a panorama of dimpled flirtations before a masculine audience of two bald headed front row admirers. Every table except one was surrounded by a laughing company of talkative women and carefree men. The atmosphere was charged with the festive electricity of Christmas happiness. But at one table a man sat alone. His mouth drooped in Scrooge-like scepticism. Deep lines across his forehead indicated a Christmas with the joy left out. The expression of paternal dignity was absent. In his eyes was no reflection of a husband's devotion. The message of Christmas peace could not come from a heart like that.


Genuine Christmas comes to those who love and have their loved ones around them. Dark deep black mental clouds

Gifts of Jewellery or Silver are always Welcome as Christmas Gifts


They please because of the personal usefulness which they have as well as for their permanent value.

A splendid selection, well and clearly illustrated, is shown in our new 1915 Catalogue from which you will find it a pleasant task to choose your gifts.


If you have not already a copy of this book, fill in the coupon below, mail it to us, and we will see that one is sent to you by return mail, post paid and free of charge.




21292 Single Stone Ring
w/ Diamond Ring 14k Gold
Setting
\$10.00



21801 Twin or Diagonal
Diamond Ring 14k
Gold Setting
\$25.00



21832 Three Stone Ring
Diamond Ring 14k Gold
Setting
\$25.00



DINGWALL JEWELLERY & SILVER BOOK for 1915

D. R. DINGWALL LIMITED
JEWELLERS :: WINNIPEG

D. R. DINGWALL Limited
WINNIPEG
Gentlemen: Kindly send me your 1915 Catalogue by return mail post paid and free of charge.
NAME
ADDRESS
C.T.F.

You saw this advertisement in this magazine. Don't forget to say so when writing.



PURITY FLOUR

"More bread and better bread"

CHRISTMAS BY TELEGRAM

Continued from page 48
blinded the vision of his soul. Mechanically he picked up the evening paper while waiting for his dinner. The haze of humiliation blurred all the reading matter on the page save one paragraph that burned in letters of fire.

A MOTHER BEGS FOR WORK

"A mother with a little three months' old babe and a tiny girl clinging to her skirts waits every morning at the Employment Bureau for work. She is penniless and hungry and is willing to work hard for shelter and food for her little ones. Will the public help us find a place for this brave little mother?"

The freezing chill of remorse paralyzed him into a sense of half consciousness. His cold clammy fingers etched and twisted the paper to a distorted shape. The fog of self contempt separated him from the gay men and women in their Christmas festivities. He was alone and he felt himself sinking, sinking down deep in the quicksand of selfish misery. Alone on Christmas Eve he was paying the death penalty of a horrible crime, the crime of Paternal Desertion.

Down in the dungeon of his dark mind a tiny ray of light suddenly gleamed. Brighter and bigger it became until his whole being was warmed by its strength. Up, up, up to the sky of hope it lifted him when before him in all its glory he recognized the Star of Bethlehem.

The little Scotch mother and Mary were finishing the last imaginative Christmas cake when a messenger appeared with a telegram.

"Dear little wife: I am telegraphing money to bring you and the babes to me immediately. Leave on to-night's train. "Jack."

And the Star of the Christ Child sealed the broken heart of the brave little mother with the peace of a husband's love.

Hints for Christmas Gifts.

A pretty and practical handkerchief sachet is made as follows: two strips of ribbon, each twenty-eight inches long, should be doubled and made pointed at each end with a very thin layer of cotton, lightly sprinkled with sachet powder placed between the two thicknesses of ribbon. Insert a square of cardboard almost as wide as the ribbon in the exact center of the first double strip, and overhand the edges of the ribbon together. Draw this through the other double strip and fasten temporarily in the exact center. Overhand the edges of the second strip together until the square of cardboard is reached, fell to first strip inside and out, and you have a stiff square with a double strip of ribbon

Ladies' Hair Combing
Made up in any style

Elite Hairdressing Parlors

207 New Enderton Building
Portage Avenue
Winnipeg

Specialists in Wigs
Toupees, Transformations
Etc.

Correspondence invited on matters relating to hair. Advice free. A full line of the best toilet articles and hair dyes carried

Our Motto:
"Best Service Every Time"
Dr. J. KLEIN, Proprietor



Name this magazine when writing advertisers

pointed at the end extending from each side of it. Put collar snaps on the four ends and a rosette on the one destined to be the top, and you have an article which will cost you two dollars in any fancywork shop, and in which any feminine friend will take the greatest delight. Another and easier one for less expert fingers is made as follows: two four-inch squares of cardboard covered with pretty silk, neatly overhanded at the edges; then stitch or overhand together along the salvaged edges two strips of ribbon a little more than one-half inch wide, and twelve inches long; draw through this an eight-inch strip of white cotton elastic, one-half inch wide, fasten ends together very securely and sew on a rosette. You have now two separate, stiff silk-covered squares between which you may place as many handkerchiefs as you wish and hold them together by means of a pretty shirred band which will stretch to any length within reason.

Another, more complicated but very pretty, case calls for three four-inch squares of stiff pasteboard. Cut two pieces of unbleached linen four and three-quarter inches square, stitch or overhand together around three edges, slip



Mark McClung, aged 3 years, the youngest of five children of a proud mother—Mrs. Nellie McClung, and, as Napoleon said of the English Sailor:

"A noble mother must have bred so brave a son."

in cardboard square and overhand remaining edge. Cut each of the two other squares of cardboard in two; cover with linen in the same manner. You have now one piece four inches square and four pieces, four by two inches, all neatly covered. Slip at each edge with an overhand (not running) stitch, a twenty-four inch length of pale blue ribbon of strong quality, two inches wide; sew ends together and fasten the gathering threads, making a shirred strip sixteen inches around. Overhand this to the four-inch square. Overhand each of the four small pieces to each side of the top of the shirred square. Two opposite strips of cardboard will fall to cover the pile of handkerchiefs placed within, and over them will fall the remaining opposite strips. The two top ones may be embroidered with a spray of forget-me-nots or other design to suit the colors used, before the cardboard is inserted, or they may be featherstitched around the edges, or left perfectly plain. This case is also most useful to hold a ball of wool, it will pay out very readily through the tiny space in the center, while a worked loop at one edge to slip over an ordinary dress hook which has been slipped between cardboard and cloth and securely sewed to the former on the under side, holds it securely closed.

The familiar wire dress hanger may be covered with a layer of cotton sprinkled with sachet; two strips of silk or ribbon four inches wide and twenty-five inches long (it may be pared since it is to be shirred later) is next needed. Sew these up to make two long bags, run shirring strings in each edge, slip on the padded coat hanger, shirring up the ribbon, sew the two together, wind the hood with inch wide ribbon in a color to match, finishing it with a bow to hide the seam; and you have a dress hanger which will be most acceptable.

Serviceable Christmas Gifts

Present conditions have given great impetus toward popularizing the "practical Gift" movement, this year. What could be more practical than a set of

Black Wolf Furs

Mother, daughter, or fiancée would show true appreciation for such a gift. We have made a special price on these sets for Christmas buyers.

You have your choice of either a shaped stole, trimmed with tails and lined with good quality black silk, or the animal style stole, trimmed with head and tails. Then there is a medium sized pillow muff. This choice black wolf fur is very suitable for fox and equally as durable. The special price to Christmas buyers for these sets is

\$25.00

Other gift suggestions we might make are:

- Ladies' Mink Marmot Coats—\$65.00, \$75.00, \$100.00.
- Ladies' Muskrat Coats—\$60.00, \$75.00, \$100.00.
- Fur Trimmed Slippers—75c., \$1.50.
- Fur Slippers—\$1.00, \$3.00, \$6.00.
- Hudson Honey Coats—\$75.00, \$83.50, \$100.00.
- Mink Fur Sets—\$100.00 (Regular Value, \$200.00).
- Raccoon Fur Sets—\$26.50, \$56.50.
- Fur Robes—\$12.00.
- Steamer Rugs—\$5.00, \$6.00, \$8.00, \$12.00.

Remember that the guarantee of highest fur quality goes with all Fairweather Furs sold by mail. Order early to insure Christmas delivery.

Fairweather & Co. Ltd.

297-299 Portage Avenue

TORONTO WINNIPEG MONTREAL

You saw this advertisement in this magazine. Don't forget to say so when writing.

Slipper Rods.

A pair of slipper rods wound with pretty ribbon make a very inexpensive and acceptable gift.

The rods can be purchased at any shoe department at ten cents a pair and one and one-half yards of inch-wide ribbon will cover them nicely and also make a pretty bow in the center of each.

Cover the metal part by winding the ribbon around and around, sewing at each end with silk thread to match. Sew the bows in the center. Either plain satin or flowered ribbon is pretty.

A cover for a tumbler of medicine is useful to an invalid. Cut a circular piece of linen two inches larger than the top of a tumbler. Mark with a pencil around the rim of the glass and scallop with a thimble for guide well outside it.

Twine-holder.

The twine-holder is made of four sections of white pique, each four inches long, three inches wide at the top, and curved to a sharp point at the bottom. Outline a section on strong writing-paper. Make the scallops with a thimble. The design is a group of circles surrounded by painted leaves; the ends of ribbon can easily be sketched. Any simple embroidery design will do for this. Work the eyelets. Scam the top sec-

tions together, fold up the points but leave an opening for the twine to pass through. Finish seams with brier stitch and run baby ribbon through the eyelets.

FREE

ALL CHRISTIANS

Should Read These Pamphlets:

- "Where are the Dead?"
- "What is the Soul?"
- "The Rich Man in Hell?"
- "Thieves in Paradise"
- "Calumnies: why 'Permitted'"
- "Battle of Armageddon"

Scripturally explained and mailed free on request

Or we will mail the above six pamphlets and our booklet, "What say the Scriptures about Hell?" post paid for 10c.

SPECIAL OFFER:

Studies in the scriptures—6 vols of 3000 pages, bound in cloth and gold, comprising the following:

- I. The Divine plan of the ages.
- II. The Jesus at Nazareth.
- III. The Kingdom Come.
- IV. The Battle of Armageddon.
- V. The Atonement between God and Man.
- VI. The New Creation.

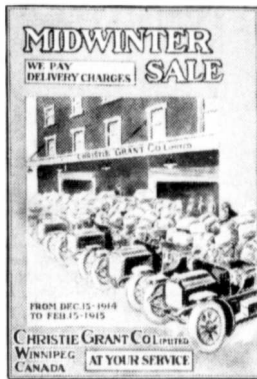
All of the above mailed post paid (any language) to any address for \$2.00 in three studies the teachings of Divine Revelation can be seen to be both beautiful and harmonious.

Bible Study Club

59 Alloway Ave., Winnipeg, Man.

Name this magazine when writing advertisers

Our Great Midwinter Sale



WE have just issued our special Midwinter Sale Catalogue. If you have not received a copy, let us know at once, so that we can send you one. It contains the biggest and best values that have ever been offered in Canada, and in such a wide range of articles that you can stock your wardrobe or household for a mere fraction of what you would have to pay in the ordinary way. The sale commences on December 15 and lasts until February 15; but do not delay in ordering, because the first choice naturally goes to those who order first.

If you want, therefore, to benefit to the fullest extent, send in your order just as soon as you get the catalogue.

If any of your friends or neighbors have not received our Sale Catalogue, you would do them and us a genuine kindness by sending us their names and addresses. You would show them how they could save a lot of money and you would give us an opportunity of introducing ourselves in a popular, profitable and substantial way.

Remember the sale dates December 15 to February 15, and do not delay your orders.

Remember We Pay
Delivery Charges

CHRISTIE GRANT CO. LIMITED
WINNIPEG
CANADA
AT YOUR SERVICE

Remember We Pay
Delivery Charges

You saw this advertisement in this magazine. Don't forget to say so when writing.

Calendars make attractive gifts. Cut two panels of different colors, one larger than the other; paste together at corners. Decorate with cut-outs from crepe or wall-paper, or with any small picture.

The vanity case is an envelope of linen, divided into pockets by featherstitching. The scalloped edge of the flap is decorated with eyelets and a flower-dotted featherstitched border. After it is finished slip in a tiny mirror and powder box.

Christmas Flower Gardens.
A small boy sent us gifts to five cousins last Christmas five small packages looking exactly alike. When unwrapped they proved to be wooden boxes, neatly made, stained with a dark green stain and trimmed with strips of bark. Each box was filled with earth, in which was stuck a placard, one side of which read: "Wait for me!" and the other, "Christmas Greeting from Harold." The children guessed the puzzle and put their boxes in a sunny window, watering them faithfully, with the result that in a few weeks there were five small flower-gardens filled with lusty blossoms.

was fastened. I found mine in the dining room beside the clock. It led me an apparently aimless dance for a while; in and out of rooms, over chandeliers and under doors, but finally it made a straight shoot for the parlor. I arrived there just as the others did, some coming from dark regions upstairs. The room was brilliantly lighted, but none of us had eyes for anything but a portly gentleman sitting in an easy chair, with an open umbrella over him. He looked very weak and white, and, on closer inspection, proved to be made of pillows. He was covered with strings leading to all parts of his attire and to packages heaped around him. His hat, necktie, collar and gloves went to one of the boys. His watch chain, made of raisins, but boasting a "real" charm, was also attached to a string held by a boy who had lost his charm while playing football. His stockings went to a smaller boy; his umbrella to me; his watch to my husband. The easy chair was for the father, and so on.

Such laughter and fun! We never had a better time, but the poor gentleman was a sorry sight when we had finished, and dropped over as if ashamed and shocked at our levity.

We voted it the jolliest way possible of distributing presents.

child, as it brings the child at exactly the right height to eat from the table.

Such a chair can be made quite attractive by covering with art burlap, using brass-headed tacks. My children prefer them to their regular high chairs, and they come in handy when visitors come with little ones.

CHRISTMAS RECIPES.

Merrie England Christmas Plain Pudding.

Take one cupful of seeded raisins, one cupful of washed and picked currants and one cupful each of chopped citron, orange and lemon peels; flour them thoroughly. Into a large bowl put four well-beaten eggs, one heaping cupful of sugar, a teaspoonful each of cloves and cinnamon and half a grated nutmeg. Into this stir the floured fruits and add a cupful of chopped, blanched almonds, two cupfuls of bread crumbs and one cupful of chopped suet in the order given. Add enough flour in which a teaspoonful of baking powder has been dissolved to make the fruit stick together. Put into a large, well buttered mold and set in a saucepan with boiling water to reach halfway up the sides of the mold; steam thus for five hours. Turn out carefully on a dish and serve with a sauce made as follows: Boil one and one-half cupfuls of water; add to it one full teaspoonful of cornstarch which has been dissolved in a little cold water, and one cupful of sugar. Add a piece of butter the size of an egg and boil all together for ten minutes. Remove from the fire; strain, and when cool stir into it one teaspoonful each of lemon and cinnamon extract and a quarter of a cupful of orange juice. When finished, the sauce should be of the consistency of thin syrup. Lay sprigs of holly berries about the pudding and place across the top, the stemmed red berries to form the words, "Merrie Xmas."

lemon extract. Boil these ingredients until a little of it becomes brittle when dropped in cold water. Put a nut on the end of a knitting needle, dip in the candy, take out and turn on the needle until cool. Malaga grapes, oranges, sliced pineapple and other fruits may be candied in this way.

Christmas Gingerbread.

Beat two cupfuls of molasses and a cupful of softened butter in a bowl until they are well blended. To this add a cupful of sour milk; stir in also a quarter of a cupful of hot water, in which a level tablespoonful of baking soda has been dissolved. Add the grated rind of a lemon, a tablespoonful of cloves and ginger to taste; then stir in enough flour to make a stiff dough. Roll the dough very thin on a molding-board and cut it into the desired shapes, such as toys, trees, Santa Claus, bells, stars, or stockings. Put the pieces in a well-

Chiclets

REALLY DELIGHTFUL
THE DAINTY MINT-COVERED CANDY-COATED CHEWING GUM

Will add a zest to the friendly argument round the cross-roads stove. Contentment reigns and the world seems bright with the aid of

Chiclets

MADE IN CANADA

The Deceptive Santa Claus

Our Christmas gifts last year were distributed in quite a novel manner. We were told that something new was to be done, instead of the usual prosaic way of handing gifts back and forth. We were barred out of the parlor for days before Christmas, and we were told that the secret was in there.

When we arrived, on Christmas Eve, the house was dimly lighted and ornamented with numerous pieces of wrapping cord stretching in all directions.

At a given signal each of us started out to find the string to which his name

To Wrap Christmas Packages.

When you have packages that are to travel a long distance, sew them up in strong tubed cloth muslin over the wrapping paper, writing the address on a tag. I had one come across the continent, protected in this way, and it arrived in perfect condition.

Homemade High Chair.

Remove the top of an apple box and the top and one side of a cracker box. Stand the apple box on end and place the cracker box on top and nail securely. This makes a splendid high chair for a

floured dripping-pan and bake in a moderate oven. When the cakes are done, before they are altogether cold, frost lightly with pink or white frosting or add the tiny pieces of candy which are made for this purpose.

Noll Cake.

To three cupfuls of sugar add two and one-half cupfuls of softened butter and whip to a light white cream. Add ten eggs, two at a time, beating for about five minutes between additions. To this mixture add four well-sifted cupfuls of flour to which one teaspoonful of baking powder has been added; mix the whole well and add one-half cupful of shredded citron, four cupfuls of washed and dried currants, one teaspoonful each of nutmeg and cloves and one-half cupful of fruit juice. Mix well and pour into a paper-lined tin, which is also well protected with paper on the outside. Bake for two and one-half hours in a moderate oven. This should be made at least a week before serving it. When ready to serve, wrap each slice in white paraffin paper, tied with a red ribbon and a sprig of fir tucked under the ribbon.

Cranberry Snowballs.

Sift together two cupfuls of flour, a pinch of salt, and three teaspoonfuls of baking powder; add sufficient sweet milk to make a soft batter, one cupful of sugar, one and a half cupfuls of chopped cranberries dredged with flour, and two well-beaten eggs. Pour the mixture into buttered wadding cups, and steam for two hours. Garnish with sprigs of holly and serve with hard sauce.

Plain Fruit Cake.

A pound each of butter and light brown sugar, one dozen eggs, a pound of flour, two pounds each of raisins and currants, half a pound of citron, one grated nutmeg, one tablespoonful of cinnamon, a teaspoonful each of allspice and cloves, half a pint of grape juice and two teaspoonfuls of baking powder. Bake from two to three hours in a moderate oven.

Star Cookies.

To make these, take one and one-half cupfuls of sugar, one cupful of butter, four eggs, pinch of salt, juice and grated rind of one lemon, teaspoonful of soda, three-eighths cupful of boiling water, and flour to mix (not too stiff). Roll out and bake in hot oven. When cold, frost with white icing. Decorate before the icing hardens with small, pink candies, those in the center grouped to simulate a star.

Dark Fruit Cake.

Two pounds each of cleaned currants and stoned raisins, a pound each of butter and sugar, one and one-fourth

pounds of flour, the eggs, two wineglassfuls of grape juice, a teaspoonful each of cloves, allspice and cinnamon, two tablespoonfuls of sweet almond meats, blanched and sliced, two ounces of candied lemon, two of citron and three-fourths of a cupful of New Orleans molasses. Flour the fruit, mix a teaspoonful of soda with the molasses and a teaspoonful of yeast powder with the flour. Bake slowly three hours.

CHRISTMAS CANDIES.

Chocolate Creams.

Form firm balls of good stiff fondant between the fingers, place on a greased paper and set away to dry. Melt confectioner's chocolate over hot water and dip the balls in.

Orange Strips.

Chop crystallized orange peel into small pieces. Mix with fondant. Cut in long strips, wrap in yellow paper or tie with orange-colored baby ribbon. Chopped figs, dates, nuts, and cocoanut may be substituted.

Fruit Paste.

Put one cupful raisins, one cupful stoned dates, one cupful figs, and two cupfuls mixed nuts through the food chopper twice. Mix with enough confectioner's sugar to make a dough sufficiently firm to roll on a board sprinkled with confectioner's sugar. Knead as you would bread. Then roll out one-half inch thick and cut into squares. Dust with the sugar and lay away in tin boxes lined with waxed paper.

Nut Crisps.

Cover the bottom of a well-buttered pan thickly with two cupfuls of mixed nuts or peanuts. Melt one pound of sugar in a saucepan, stirring constantly to prevent burning, and keep the sugar from the sides of the pan. As soon as melted remove from the fire and pour over the nuts. It will quickly change to caramel if not removed from the fire as soon as melted. When cold, break into pieces.

Pop-corn Balls.

Pop sufficient corn to make six quarts. This should be moistened before popping, as it makes it more tender and insures against any of the grains not popping. Boil one pint of molasses until it forms a ball when dropped in cold water. Mix one cupful of chopped nuts with the popped corn and pour the syrup over them, tossing with a spoon to mix thoroughly. When cool enough to handle, shape in firm balls.

Chocolate Pop-corn.

Cook one cupful of granulated sugar, one-half cupful of milk, three tablespoonfuls of grated chocolate and a lump of butter the size of a walnut together until a little dropped in water is quite brittle. Pour over one quart of popped corn, stirring so that all the kernels are coated.

Chocolate Candies.

Melt confectioner's chocolate over hot water. When almost cool enough to set, dip nuts, dates, raisins, chopped candied fruits, ginger or whatever is to be coated into the chocolate and lay on oiled paper. Chopped fruits, nuts or cocoanut may be stirred in, and small portions dropped onto waxed paper to set.

Date Dainties.

Stone dates, stuff with tiny rolls of peanut butter, walnut meats, pecan halves, bits of candied ginger, pineapple or cherries, roasted almonds and fondant flavored with lemon juice. Then roll in pulverized or granulated sugar.

Fruit and Nut Caramels.

Take equal portions of nut-meats, figs and dates and pass through the meat grinder. Mix thoroughly and place in a square shallow baking tin and pack down tight and even. When packed, the layer

should be about three-fourths of an inch thick. Cut in squares and wrap in oiled paper. If sticky to handle, dust the hands and each piece with powdered sugar.

CHRISTMAS PARTIES

A SURPRISE CHRISTMAS BELL

By Elizabeth J. Daniel

Instead of having a Christmas tree at this party a clever mother worked out an ingenious scheme which brought no end of delight to the children.

A large, red crepe paper Christmas bell decorated with holly graced the centre of the dining table, and after refreshments had been disposed of, this bell suddenly began in a mysterious manner to rise to the height of the chandelier, and there under it were the head, shoulders and arms of Santa Claus himself, coming up through the centre of the table. How the children did laugh when he began to talk to them in his drool way, and when he reached down seemingly into the floor and produced a gift for each child, repeating a funny little rhyme for each, their delight knew no bounds.

This was the way the mother had arranged the surprise. She first drew the centre boards of the dining table far enough apart to admit comfortably the broad shoulders of her brother, and laid stiff cardboard across the open spaces on each side of him. Tablecloths were folded and arranged upon the table, the folding being concealed by sprays of green decorating the cloth; heavy, flat weights were laid upon the cloth over the cardboard to keep it in place, and these weights were also covered with green. Red candies and dishes of small red candies were also surrounded by greens. A low chair was placed under the centre of the table for the accommodation of Santa Claus, and a basket of gifts was set by his feet. Lastly, after he had taken his seat the huge bell was placed over his head. An opening at its top gave him plenty of air, and from this opening a fine wire reached over the chandelier and out into an adjoining room, where it was held and gently pulled at just the right moment. The children have never tired of telling about this wonderful Santa Claus.

Santa's House Cleaning

By Mrs. Luke Conneally

The invitations were sent direct to the children from Santa Claus in the following form:

"Santa Claus invites --- to help him clean and put in order his cupboard on Christmas Eve. Some toys have been mislaid, and Santa Claus offers a prize to the child who finds the oldest mislaid gifts.

"He also invites you to lunch with him on snowballs and ice at his home near the North Pole."

All the decorations were white. The cupboard was made of boxes of all sizes, and gifts were hidden in them. Strips of white outing flannel were tacked in front of and inside the boxes to help screen the gifts. A curtain was drawn before the cupboard while the search was going on, so as to have but a dim light to search by. There were any amount of pockets hidden in the top and sides, and there were some old-fashioned toys hidden. These were searched for more eagerly than the newer ones. Some were found marked with the names of the children's older brothers and sisters, and

McKENZIE'S 1915



CATALOG

DROP A POSTCARD TO-DAY
A. E. MCKENZIE CO. LIMITED
BRANDON, MAN. or CALGARY, ALTA.
Name this magazine when writing advertisers

these, of course, were given to the younger ones. One little girl found an old-fashioned doll with her mother's name on it, and she still takes pride in the doll "that mamma should have had."

Santa Claus's house was an arch in white beside a white pole. The table was all white, and around it were made little seats shaped like snowbanks and covered with white outing flannel or sheet wadding. The sheet wadding glistened like snowbanks in very cold weather. The snowballs were little cakes and cream puffs covered with white icing. Rock candy was the ice, and there was also ice cream.

Among the white decorations were hung icicles of glass (glass pendants from a hanging lamp), and there were also white candles among the decorations. The white draperies consisted of sheet wadding, outing flannel, and cotton. All of this was entirely new to the children, and they pronounced it much more jolly than a Christmas tree.

Holiday Mail and News Stand

By Mrs. G. M. Clapham

It was found necessary, in order to meet a sudden emergency, to hold a party to provide immediate funds for a "Home for Friendless Children." The county fair grounds and also its largest exhibition building were offered to the committee.

The building was a very plain structure with bare beams and boards, too high to admit of anything so extravagant as artistic draperies.

An amateur carpenter partitioned ten feet of space on each side of the corner, making a good facsimile of a country post office. Another amateur painted over the delivery windows the usual post office signs, such as "Foreign Mail," "Local Delivery" and "Money Orders." Ordinary builders' laths were used as a framework, making a rather close lattice-work, and having a rough coat of paint.

The mail was advertised as being of a Christmas character, and by no means confined to letters. A bulletin in a conspicuous position on the corner advertised unclaimed letters and parcels.

Registered letters were those written by eminent authors and by men and women distinguished for talent or position. Anything over a dollar was accepted in payment for these, and nothing under.

Live Hens Wanted for Later Delivery

Keep your hens alive till first of February or first March and we will pay you HIGH PRICES. This proposition was favorably received last year by many farmers and it should be more favorably received this year on account of the low prices being paid for poultry just now. Let us hear from you how many you could keep for that time and we will send you one of our contracts with a guarantee for the prices which we will pay them.

Golden Star Fruit and Produce Co., 91 Lusted Avenue, Winnipeg

Manitoba Hair Goods Co.

Wholesale and Retail

Hair Goods

Our special \$1.45 switches, are 18 inches long and made of fine quality natural wavy hair.

The parted wave, made of 20-inch, natural wavy hair give the best satisfaction on if your hair is thin or grey. Price \$5.00 and up.

Send us your sample; we will guarantee satisfaction.

Toppers and wigs \$15.00 and up.

Write for our Catalogue. Combs made up at 50c per ounce.

344 Portage Ave., Winnipeg

Name this magazine when writing advertisers

City editors had responded most generously to an appeal for magazines, weeklies and dailies. These were sold at both ends of the long divisions. Stationery contributed by popular stationers was also sold at the news stand. Amateur newsboys sold evening papers with vim and success.

Every letter sold contained some pleasing information delightfully told, and the writer's autograph added to the value.

There had been a limited time for preparation, but the post office brought over one hundred dollars, and every package contained an article fully equal to the sum given in exchange.

The left-overs were of such a character that they were as useful in the "Home" as money, for contributions had been solicited with this end in view, and packages contained such things as a boy's suit of clothes, boots and shoes, towels, pillow cases, hosiery, handkerchiefs, candles, brushes and combs, a very wide range being covered.

A few, however, not included in the "usefuls," were lace and jewelry, fans, necklaces, opera glass bags and other luxuries, and these were sold at auction, after the booths were closed, by an auctioneer in countryman's costume. A crier with bell announced the sale a few minutes before it took place.



Mothers' Corner
For Christmas Day

A Prayer in the Midst of Mercies: By George Hodges

Heavenly Father, hear our Christmas prayer, which we make to Thee in the midst of mercies. Thou didst manifest Thyself to the shepherds in the voice of singing and to the wise men in the gleam of a star, but to us Thou art revealed in the joy and peace of our daily life.

We thank Thee for all thy benefits with which Thou dost unfaillingly enrich us; for Thy constant care, protecting us from harm, leading us in safety out of temptation, changing even our disappointments into unexpected blessings.

We thank Thee for happiness and health; for the delights of faithful friendships, for the sacred affections of our home. But defend us from the dangers of a contented life; save us from selfishness; protect us from the temptations of prosperity.

Look this day in loving-kindness on those who keep the feast with happy hearts. Bless all aged persons and all little children. Visit such as are away from home, in loneliness; and those who meet the day in bitterness of poverty or in darkness of pain or grief. Regard, O Father, all the empty places, consecrated by love and sorrow.

Fill us with Christmas gratitude.



To Mother at Christmas
By William J. Fischer

Mother! My sweet! I hear the sound of bells,
And in mine heart a new-born joy swift wakes
And lifts its little hands, and lo! God takes
The thoughts so glad while earth's loud organ swells.

My heart this night is full of waiting prayers,
My lips for thee with love are musical,
And life is bright, reflecting lights that all
Have come from thy pure eyes, weighed down with cares.

I hear thy voice call through my heart's wide door,
I see thy face, by swift years aureoled;
I feel thy hands steal into mine. They hold
But love—the love that makes men rich and poor.

The moonbeams light upon thy silvered hair;
How quick the artist-years can change a face!

THE SEAL OF QUALITY LINE
DUNLOP

As the widest known trade mark in Canada. As the Seal of Quality in all that pertains to Rubber Goods. As the certain indication that the Dunlop Tire & Rubber Goods Co., Limited, gladly stands back of the article, The "Two Hands" trade mark is the buyer's non-failing guide and non-varying assurance.

The home of the "Two Hands" is in Toronto. There are branch homes in all the leading centres.

When the "Two Hands" Trade Mark is affixed to

Dunlop Thresher Belting

You can know that you are getting Canada's Best.

Link yourself up with the name "Dunlop" and those "Two Hands." They are your protection.

Dunlop Tire & Rubber Goods Co., Ltd.
Head Office and Factories: Toronto
BRANCHES—Victoria, Vancouver, Edmonton, Calgary, Saskatoon, Regina, Winnipeg, London, Hamilton, Toronto, Ottawa, Montreal, St. John, N.B.

But thine is sweeter now, for tac embrace
Of those grey locks gives thee a saintlier air.

And whilst thou'rt here, my sweet, here
I pray that God may not let cold snows fall
Upon thy heart, but that warm springs enthrall
Thy spirit with gold sunshines, glorified.

And builds us heavens, near and sanctified.
And in the cheerful manger of thy heart
Let me e'er dwell—a child. O mother sweet!
The shepherd-words will soothe the burning heat
That oft consumes me in the city's mart.

Found—The Spirit of Christmas
By Mrs. Honore Willis

Every year brings to all of us the old Christmas thrill; that hidden glow of the spirit, that uplift, that yearning, that gaiety.

For Christmas is not a custom. Like Easter, it is an instinct. But while Easter is our joy in immortality, Christmas is the joy of life; of living, of loving, of laughing.

How good just living is! How warm the hearth flame! How deep the glow in the eyes of a friend! How soft the kiss

Patmore's Reliable Seeds, Trees, Shrubs and Plants



CHRISTMAS DECORATIONS.
XMAS TREES, HOLLY, MISTLETOE,
also CUT FLOWERS and FLOWER-
ING PLANTS IN SEASON. Write for
our Special Xmas Price List.

Collection No. 1

Contains 22 varieties of our Reliable
Vegetable Seeds in packets and ozs. 2 1/2 lbs.
of seed for \$1.25 prepaid.

We have growing in our Nursery and offer for sale
255,000 Native Maple, 1 to 3 ft. high.
6,000 Ontario Maple, 2 to 6 1/4 ft. high.
12,000 Native Ash, 1 to 8 ft. high.
150,000 Russian and other Poplar in all sizes.
70,000 Russian Laurel in all sizes.
115,000 Russian Golden Willow in all sizes.
5,000 Crab Apple and Plum Trees and a large stock of all hardy fruits, ornamental
shrubs, plants, etc.

Write To-day
for
Our 1915 Catalogue

We are Special Agents for Messrs. Sutton & Sons, of Reading, England. We list in our
catalogue the hardest varieties of their World Famed Seeds in sealed packets at 10c. per packet.

BRANDON, Man. THE PATMORE NURSERY CO. SASKATOON, Sask.

Collection No. 2

12 packets of Reliable Flower Seeds for
25c. prepaid.

Farmers' Collection No. 3

Contains 1 lb. mangel, 1 lb. Sugar Beet,
1 lb. Swede, 1 lb. Carrot, 1 lb. Kale and
4 lbs. Rape—8 lbs. seed for \$2.50 prepaid.

For \$10 cash with order we will send

prepaid to any address—
50 Currant and Gooseberry bushes of best varieties
100 Raspberry Plants, best varieties
12 Plum and Fruit Trees, young and thrifty, 2 to 3
ft. high and 12 Rhubarb Roots.
All of above for \$10.00

in which we list all the hardest and best
varieties of Vegetable and Flower Seeds,
Fruits, Trees and Shrubs, Grasses, Fodders
and Seed Potatoes.



You saw this advertisement in this magazine. Don't forget to say so when writing.

of a woman! How sweetly clinging the
fingers of a child! How unutterably tender
the winter gleam of the stars! Oh
beautiful the naked trees against the
sky!

It was back in the childhood of the race
that some happy soul first caught the
Christmas thrill and instilled into his
neighbors the joy of life. And generation
by generation, men have thought of love-
ly expressions for their delight.

It took many forms—each race of
people expressing it in accordance with
its temperament and surroundings.

In the south countries, for a week,
folk laid aside their warrings, and gave
themselves over to happiness. Doors were
flung wide. Flowers were sent to
friends. There were games and dancing,
feasts and laughter, pipes and timbrels.

In the north, too, men and women
thrilled with the gladness of being.

Drags is a great log for the fire. Strew
the floor with rushes. Sing for the joy
of strength! Set out a torch for the
wayfarer. Let the minstrel in! Let the
beggar in! Let every one, any one, in!

And then, in this joy period, the Child
was born in Bethlehem! Little by little
the story spread, and a new element
crept into the thrill.

This was awe.
Awe at the miracle of motherhood, at
the mystery of the gift of life. Forth-
with the Child and all children found
their place. Christmas-tide had come!

For generations after, old instincts
spoke wholesomely.

The Yule logs roared up deep-throated
chimneys. The dancers played Christ-
mas mysteries. The singers sang Christ-
mas carols. The torch became a candle
to light the Christ-child, and for his sake
gifts were heaped on all children.

And then a sad thing happened.
As centuries went on, civilization
brought forgetfulness of the old ways,
and nearly all are lost.
Christmas-tide, Christmas-tide, has be-
come an orgy of grown-up gift-trading.
It has become a panting, whirling season
of exchange and barter; of discontent,
and of worse than foolish extravagance.
And above the tumult and the hurrahs
the stars that gazed on the quiet altars
of Arcady, on the Yule log, and above
all on the Manger of Bethlehem, look
down in brooding wonder. And yet—
romance is not wholly lost, so long as
we have simple-hearted childhood to
make our Christmas merry.

Crying Children

By Harriette Waters

Children quite beyond babyhood some-
times have distressing fits of crying.
Some small boys and girls are troubled
with morbid feelings which find vent
in tears when the little people do not know
what makes them cry. Girls are more

likely to have such fancies and shed such
unintelligible tears than boys. Often it
is not a mere petulance, but a sense of
mysterious trouble, a morbid imagination
that peeps the child-world with fancies
that seem very real, although they are
baseless. A sensitive, nervous, imagina-
tive little girl may endure actual suffer-
ing from such overwrought moods.

A child of eight was thus addicted to
"crying spells." It was found that the
trouble was purely mental not physical,
and her wise mother tried diversion. One
night she was taken out to look at the
stars, as a means of turning her thoughts
from herself. This was found to be the
best remedy. A self-conscious child
should have her mind withdrawn from
introspection as much as possible. Whole-
some play, much of it out-of-doors,
should be encouraged, and objects of
interest continually presented to attract
sympathy and lead to activity in behalf
of others.

Great patience is needed in dealing
with such natures. It may work and
injury to reprimand too severely, or to
take it for granted that the fancies are
all foolish and the fears and tears utterly
unreasonable. A child who feels that she
is misunderstood suffers much. Take
some time when she is well and happy
to speak of the positive side, and without
referring to other moods, speak brightly
of mother's love, and appreciation of
little daughter, and of the child's power
to make the rest of the family happy,
when she is sunshiny and bright as she
is now.

Sometimes a child's shyness is an
actual pain. A little boy of six was so
dependent upon his mother's presence
that he could not bear to be out of her
sight, and burst into tears if she left
him. He would not go to Sunday-school
unless she remained near him the whole
time.

As this was not always convenient,
a firm stance was finally taken. The
child was reasoned with, and the case
laid before him. If his mother promised
to stay a certain time, she did. When
she said that she would leave him at a
certain time, she did. He was gently
but firmly told that he must stay in the
classroom after mother went out. He
did so, shedding quiet tears for a few
times. The teacher did not call atten-
tion to him even by seeking to comfort
him, and he soon became one of the
happiest scholars in the class.

Belated Weaning

Mrs. M. H.: As your baby was twenty-
one months old in April, it is to be hoped
that you weaned her before warm
weather. The night's feedings have long
been unnecessary. A child's stomach
needs rest after it is old enough to take
nourishment enough to last from ten

Farmers!

Don't Cry Over Spilled Milk

Here is something that you will use
730 times a year.

The Simplicity Milk Pail Holder

Fits any milk pail. It is impossible for
the cow to upset the pail or the pail
to slip down through the knees and
spill the contents.

PRICE ONLY 35c.

Don't Delay - Send Now

Also ask for our Monthly Bargain
Sheet. You will save money.

The Davidson-Gwynne
Specialty Co.

807-809 Somerset Block - WINNIPEG

o'clock at night until six in the morning.
She should be able to take clear milk
if it is pure and good, broth, thoroughly
cooked cereal, a colded egg, a little
rare, scraped meat, stale bread and but-
ter, fruit juice, boiled rice, custard, prune
pulp, or baked apple, milk toast, and
other simple foods.

WHO SHOULD LEARN DRESS- MAKING OR MILLINERY?

The prospective student may ask:
"Why should I learn Millinery or Dress-
making? Of what advantage will it be to
me? Am I so situated that a knowledge
of dressmaking or millinery is or will be
of value and service to me?" In answer
to these questions we will say that we can
conceive of no possibility or condition in
which any woman could be so situated
that there would be no apparent necessity
for this knowledge.

There are three classes of women to
whom a knowledge of Dressmaking or
Millinery is of untold benefit.

These three classes are, young girls and
women, who, for various reasons, are
compelled to make their own living or
are compelled to augment their regular earn-
ings. The second class is composed of
those women who must do the sewing for
themselves or family because they cannot
afford to pay for having it done; or who
desire to dress better and at the same
time save money. The third class is
composed of women who desire to engage
in a pleasant, independent, profitable
business of their own.

To each and all of these classes of
women we unhesitatingly offer our courses
of instruction as the most complete and
thorough training they can get anywhere
at any price. Our lessons are adapted to

Useful New Invention

Enables Anyone to Play Piano
or Organ Without Lessons

A Detroit musician has invented a
wonderful new system which enables any
person or little child to learn to play
the piano or organ in one evening. Even
though you know absolutely nothing
about music or have never touched a
piano or organ, you can now learn to
play in an hour or two. People who
do not know one note from another are
able to play their favorite music with
this method without any assistance from
anyone.

This new system, which is called the
Numerical Method, is sold in Canada by
the Numerical Method Music Co. of
Canada, and as they are desirous of at
once making it known in every locality,
they are making the following special
free trial and half-price offer to our
readers.

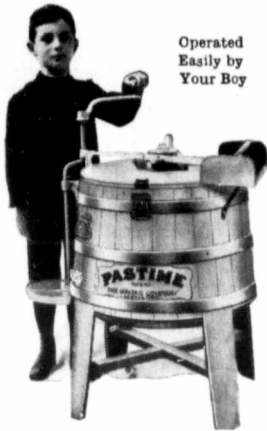
You are not asked to send any money
until you have tried and are satisfied
with the new method. The Numerical
Company is willing to send it to you on
one week's free trial, and you will not
have to pay them one cent unless you
desire to keep it. There are no express
charges to be paid, as everything will be
sent by mail. Simply write a letter or
post card to the Numerical Method Music
Co. of Canada, 252R Curry Hall, Wind-
sor, Ontario, saying "Please send me the
Numerical Method on seven days' free
trial." If you are satisfied after trying
it, the Method and fifty different pieces
of sheet music will cost you only \$5,
although the regular price of these is
\$10. You should not delay writing, as
the Numerical Company will not con-
tinue this special half-price offer in-
definitely. Later on, the Method and fifty
pieces of music will be sold at the regular
price.



THE WORLD'S TWO BEST WASHERS



The Child's Pastime



Operated Easily by Your Boy

This machine can be operated easily by any child who can reach the handle.

WARRANTY

We guarantee the "PASTIME" Washing Machine to wash the Clothing QUICKER, CLEANER, and to OPERATE EASIER than any other hand-power Washer on the market. We further guarantee it to be well made and of good material throughout.

The Power Wonder



This is the POWER WASHER with swinging wringer. It is an absolutely perfect piece of mechanics, of extraordinary capacity for work, and can be run by the Smallest Gasoline Engine.

THE MAYTAG POWER WASHER

It is the only power washer in the world with a "Swinging Wringer." The wringer is run by power and works perfectly whether on the tub or swung in the two other positions. We also furnish with every machine a hand power attachment so if anything should go wrong with your gas engine before washing is done the washing can be finished without any loss of time. The machine is full to the brim with quality. We prefer to sell through your local dealer. Ask him to order one for you. If you are not perfectly satisfied with it at the end of a month take it back and get your money. If your dealer does not attend to the matter promptly, write to us and we will give you our special introductory proposition. Address, The Maytag Co., Ltd., Winnipeg, Man.

OUR BEST THANKS are herewith tendered to readers of the *Canadian Thresherman and Farmer* for the generous recognition of our announcements through its pages during the past year. We take advantage of the **Happy Season of Christmas** to express our good wishes to all old and prospective friends with the hope that our business relations with them will continue to increase as it has done in the past through their good offices. Our single purpose is to provide **the best in all we handle** and to substantiate in every detail what our advertisements profess.

The WORD

STICKNEY

When referring to a Gasoline Engine

MEANS PERFECTION

We have them in all sizes, from 1½ to 20 H.P. Also a Complete Stock of Repairs and Extras. For Prices and Full Particulars write to the



MAYTAG CO. LTD.

WINNIPEG - MANITOBA



any woman who comes within either of these classifications and we believe those three classes represent a very large majority of all womankind.

To the working girl or woman, Dress making or Millinery as we teach it provides a sure, quick and satisfactory method of increasing her earnings and giving her easier work and shorter hours. To the mother of a family the course at the Malcolm School guarantees liberation from much drudgery and enables her to dress better at less expense. To the woman who desires to go into a profitable business of her own with a small capital, our course means just the difference between success and failure. It means that she will get the right kind of a start in the beginning and will be able to establish a good paying business.

Part of our course is directed to instructing the student in correct method of conducting the business management of an up-to-date Dressmaking or Millinery establishment. With the equipment which our instruction gives there is no excuse for failure.

CARE FOR THE HAIR

Care for the hair is very often neglected by many people until the hair falls out and gets thin, then they try to find something that will stop its coming out or some medium that will make the hair grow again, an expensive and not always satisfactory experiment.

The best way to preserve your hair, is a good shampoo twice a month or more frequently if necessary. The air is filled with dust which is loaded with germs. Your hair is exposed to this and if oily and sticky, retains more dust than clean hair. When out riding this is particularly true. These germs which float, seeking a home, will settle in the hair and cause a disease of very unpleasant nature.

It is therefore absolutely necessary to keep your hair clean. Ordinarily two applications of the liquid shampoo soap will be sufficient. The use of pure castile soap, dissolved in water, will be found excellent. This is a neutral shampoo and will not injure the finest hair or hair that has been dyed. It is best to use a small brush around the hair line, to be sure that there will be no sticky condition left. Often the cream and powder work up into the hair and make the soap lather very slowly around the hair line. The rinsing must be thorough, and the last rinse very thorough, and if agreeable, a gradual cooling of the water until it is quite cold, makes a good finish. The gloss on the hair is improved by a warm rinse. It is advisable to pay attention to rinsing for half the success of the shampoos lies in the rinsing.

In shampooing hair that has been bleached and refuses to be soft and free from stickiness, a lemon rinse will be found effective or a few drops of vinegar in the last rinse. The juice of one lemon to a quart of water is a good proportion. Egg shampoos are also excellent on hair that has been bleached. The number of eggs used in this shampoo depends upon the amount of hair. From three to half a dozen are necessary for a successful shampoo. It is always advisable to give one application of soap first to take off the oil and dust, as the eggs alone do not work out satisfactorily.

The eggs to be used are beaten together thoroughly in a dish, mixing a little water with them to make it easier to saturate the hair. Then the mixture is applied like soap and the usual method of shampooing follows. Always be sure to rinse the hair thoroughly with warm water. Many women do not realize the importance of the correct and careful shampoo to keep their hair beautiful and soft, but a correct shampoo is as essential to the health of the hair as is fresh air to the lungs. It is well to have a shampoo regularly and one in ten days is not too often. This may sound strange to people who think once in two months is quite enough, though anybody will realize now that to keep life in the hair, it must be kept clean. There is nothing that makes one feel so fresh and clean as a shampoo and a beautiful wave. We advise a wave following a shampoo, as it trains the hair, and the passing of a warm iron over it—as is necessary in marcelling—induces a growth of hair. The woman who dislikes grey hair must remember that care and cleanliness of the scalp is her only hope of salvation from getting old at an early age.

Woman and Life Insurance.

The National Association of Life Underwriters gave a prize for the best essay on "Woman's Interest and Influence in Life Insurance," which was won by John C. Drewry, of Cincinnati. Miss Mary Roberts Rinehart, the novelist, in giving the prize as one of the judges, said:

"The recent change in woman's status and attitude is not only political, but economic. She is earning money. For the first time, perhaps, she is learning just how much blood, brain and sweat goes into the making of a dollar. She works and earns, and she is tragically aware on how precarious a thread industrial permanence hangs. The battle is to the strong."

MOTHERS!

Don't miss reading this: All mothers are naturally very anxious that their babies should be healthy and strong, and this can only be attained by keeping them well nourished with a suitable food when it is not possible to nurse them in nature's own way.

Attention is here called to a valuable food made in Western Canada from Canadian Cereals. Below is a picture of an 18 months old boy fed entirely on Porter's Food since he was ten weeks old. His health was excellent and growth normal while he was being fed on this food.



Porter's Food is a very easily digested food. It is highly nutritious, and proves to be of immense benefit where the baby does not thrive on a strictly milk diet. It soon relieves colic, diarrhoea and indigestion, and children who are restless and cannot sleep soon become contented and restful after taking this food. Porter's Food can be made with or without milk, or with water and cream, according to the requirements of the child.

Many mothers testify to the value of this food, and speak of it as a wonderful food for babies, imparting strength and vigor, and causing frail and delicate babies to become strong and healthy and a joy and delight.

Porter's Food is highly recommended by the medical profession.

DELICATE AND GROWING CHILDREN

Porter's Food is highly recommended for growing children. Being a specially prepared digestive food, made from wheat flour and oatmeal, it is more easily digested than porridge. A daily dish of Porter's Food will satisfy and sustain young children, and make them strong and vigorous.

Porter's Food will be a useful addition to the household economy whether there is a baby or not, as it is very useful as a gruel in case of sickness, especially when solid food cannot be taken. It can also be used for making custards, thickening gravy and soups, or will add nutriment to any kind of warm beverage. It can be used either as a food or drink.

Porter's Food is economical and inexpensive—send 5c. in stamps to cover postage on Free Trial Sample, or \$1.00 for a large 3lb. package, which will be sent post free to any address in Canada.

Mail your order direct to the manufacturer:—

George Porter,
309 Victor Street, Winnipeg.

Five Roses Cook Book
and Famous
Five Roses Calendar



"Five Roses Flour"

NOT BLEACHED NOT BLENDING

Five Roses Cook Book
BREAD, PASTRY, ETC.

just published is an authority that will simplify the duties of the housewife, and that no well regulated household should be without. It is a manual of good recipes, dealing with almost every article of food in which flour is used. To this most useful book 2,000 successful users of FIVE ROSES FLOUR throughout Canada have contributed, and every recipe is defined in clear and simple language that can be readily understood and easily applied.

The book itself is a model of typographical neatness, printed on superior paper, with contents arranged in a most convenient manner. The pages, of which there are 144, are brightened with a judicious assortment of illustrations from black and white sketches, and have a most complete index. The book is bound neatly and strongly, and has good lasting qualities.

All the contributions were unsolicited and constitute a remarkable tribute to the excellency and the Dominion-wide popularity of FIVE ROSES FLOUR.

It is the wish of the LAKE OF THE WOODS MILLING COMPANY that as far as possible the Cook Book and famous Five Roses Calendar should find their way into every Western home. The supply, however, is necessarily limited, and it will be well to lose no time in sending in requests. In order to facilitate the distribution and to handle the correspondence promptly and efficiently, the attached coupon must be properly filled out and 10 cents in silver or stamps duly enclosed for postage, and the address should be

DIRECTOR OF PUBLICITY
LAKE OF THE WOODS
MILLING COMPANY, LIMITED
WINNIPEG

COUPON FOR THE FIVE ROSES COOK BOOK AND FAMOUS FIVE ROSES CALENDAR

Write name and address plainly. Enclose ten cents in stamps or silver for postage

Name

Street and Number

City and Province

Name of Dealer

C.T.F.

You saw this advertisement in this magazine. Don't forget to say so when writing.

As Agriculture Preceded, etc.

Continued from page 46
possesses, the one resource that cannot be exhausted," the fragrant, fruitful soil.

Even now the telephone, the rural free delivery, the parcel post, the gasoline engine and good roads, are revolutionizing life upon the farm. The farmer's life is becoming easier, just as his potential wealth is becoming greater. And this is well!

To me there is no fairer sight than the vision of verdant meadow and a rolling hillside standing in cultivated and ordered beauty under the husbandman's plow. There is no more satisfying spectacle than serried rows of white blossoms lifting happy faces to the spring sunshine, or bending fields of golden grain swaying to the fragrant harvest winds.

The forest may be fair, the mountain crag compelling, the ocean mysterious and majestic. But the forest speaks in the accents of the savage; the apple blossom in the tongue of one we love. The crag is mute and voiceless with the silence of isolation; the plowed field murmurs of life and youth and hope. The winds that sweep over the ocean sing of fury and destruction; the breezes that wander over the stately wheat and tasseled corn croon a song of peace, of plenty, and of humanity.

As it is with his broad acres, so may it be with the farmer's home. May the mortgage that darkens his doorway, disappear, taking with it the furrows from the housewife's toilworn face. May his daughters escape the privations that their mother bore with tender courage, and live the graceful, buoyant life of happy girlhood. May his sons whistle at their work and grow to manhood respecting their father's vocation and recognizing its widening promise and increased importance. May Twentieth Century farming and Twentieth

Century facilities make the farmhouse as cheerful in December as in May, and as beautiful in November as it is in June. May the American farmer rise at last to the full dignity of his calling and claim his rightful share of the inexhaustible wealth which his labors draw from the broad and fertile acres of free America.



D. B. Clarkson Introduces the "Easy Method" Music to Canada, whereby Anyone can Learn to Play the Piano in One Evening.

Mr. D. B. Clarkson, of Chicago, has completed arrangements to establish a branch office in Toronto, to care for his rapidly increasing business in Canada.

Mr. Clarkson is the publisher of a system of musical instructions enabling any one to play the piano in one evening. This system is known as the Easy Method Music, and during the past three years over 300,000 courses have been sold. This method brings music within the reach of thousands who are too busy to take up the old methods. It does away with the helpless way in which thousands of persons, young and old, labor to learn music, and the difficulties imposed upon them by the absolutely arbitrary system of writing and teaching music under the existing systems.

The offices in Toronto are under the direction of Mr. J. R. de Roulac, and will be head office for Canada.



Benefits Forgotten

A traveller in the mountains in a Southern state found a man cultivating a crop on Sunday morning.

"Friend," said the traveller, "don't you know this is Sunday?"

"Is it?" asked the man. "I plumb forgot; but," he hurried on, "I might 'a' knowed, for I remember when they introduced Sunday down here."



French Enough

When James B. Reynolds, now a member of the Tariff Board, was Assistant Secretary of the Treasury, Senator Root, then Secretary of State, sent for Reynolds to discuss with him matters concerning a trade conference in Paris, which Reynolds had been selected to attend.

"By-the-way, Mr. Reynolds," said Mr. Root, "you speak French, I assume."

"Oh, yes," Reynolds replied, "I have a little French. I can make the waiters and cabdrivers understand me."

"Um," said Root; "but, Mr. Reynolds, suppose there should be no waiters and cabdrivers in the conference?"

Save Your Foals USE

Foaline
TRADE MARK REGISTERED



A useful and instructive booklet on NAVEL DISEASE and JOINT-ILL. It contains many testimonials and references from users, and may be had by writing to—

Wallen Drug Co.

WINNIPEG CANADA

Your Choice of a Range should be governed by

the amount of coal it would use rather than by the amount of money it costs.

MONARCH PENINSULAR RANGES

are constructed to heat quickly and economically—to save coal. And it is so convenient too—with the drop oven-door that closes at a touch, the raising front section for broiling or toasting, the large warming closet, the easy-to-clean, bright body of special C.B. rust-resistant steel with removable nickel ornaments, and the reservoir, hot water exchangeible to either end of range. (Two reservoirs can be used if desired).

Our book "The Cost of a Range" contains facts that every economical housewife should know—write for it.

Sold by all Dealers
Clare & Brockest, Limited, Winnipeg
Monarch Ranges are made in Canada.

IN THE FIELD MAKING MONEY-

or in the barn, "eating their heads off". One means profit—the other means loss. When a horse goes lame—develops a Spavin, Curb, Splint, Ringbone—don't risk losing him through neglect—don't run just as great a risk by experimenting with unknown "cures". Get the old reliable standby—

KENDALL'S SPAVIN CURE

Mr. F. Winters, Fort William, Ont., writes—"I have cured one spavin with your Spavin Cure, and am now trying it on another with good results". Be ready for emergencies, keep a bottle of Kendall's in the barn. Then, if a horse goes lame, you have the remedy on hand to cure the trouble quickly. It is a bottle—6 for 25, at drug stores. Ask yours for free copy of book—"Treatise On The Horse" or write us direct.

Dr. B. J. KENDALL CO., ENOSBURG FALLS, VERMONT, U.S.A.

THE JUDSON WAY "FACTORY TO FARM" SAVES YOU MONEY

YOU SHOULD KNOW ALL ABOUT THE GASOLINE ENGINE THAT WON THE CONTEST AT WINNIPEG FAIR, JULY 1914

A Two Cent Stamp or a Postal Card is all it will cost you, and you cannot afford to place your order for an Engine, Grain Grinding, or Sawing Outfit until you have read our Catalog

THE JUDSON LINE:

- Gasoline Engines
- Grain Crushers
- Sawing Outfits
- Cream Separators
- Pumps, Fencing
- Hardware, Harness
- Washing Machines
- Stoves
- Sewing Machines
- Grain Elevators

MORE POWER PER GALLON OF FUEL SIMPLE AND DURABLE

At the Lowest Prices ever Quoted for a High Grade, Dependable Engine

MAKE FARM LIFE A PLEASURE

OUR NEW BIG FREE CATALOG will help you solve your labor problems and show how to save money on high grade farm supplies. Sent free on request. Write to-day

C. S. JUDSON CO. LIMITED WINNIPEG, CANADA

The Great Timboon Explosion

By DONALD MACLEAN.

GRANFATHER THICKBROOM sat on a kerosene-box on the sunny side of the house reading the weekly paper. It was Sunday morning, a calm sunny morning, after a long spell of rain. There was no morning church, and Granfather, when he took the paper outside, was careful to explain to his daughter-in-law that he wanted to read the sermon on the back of it.

Four young Thickbrooms, of a distinctly Clydesdale type, dressed in their Sunday clothes, and restrained by maternal threats as to what would happen to them if they went out into the mud, were playing a strenuous game of Salvation Army on the veranda.



"I said if it wasn't for old Peter, your bulldog, being in the yard, you wouldn't be able to keep any wood neither," he said, quietly.

sparring for time to invent a fitting answer. "I thought—they printed—the sermons in the back of the paper," Stringy shouted, "and I saw you reading in the middle of it. I s'pose you was looking to see wot the devil's been up to?"

Granfather's feet were in the toils then, and he knew it, but like the celebrated British race, of which he was an unworthy sample, he never knew when he was beaten, and with superb generalship he even now contrived to outmanoeuvre Mister Paterson, and turned defeat to victory.

"When you come to my age," he said, going off at a tangent, "you won't laugh at the devil—he's got more sense than you think"; and before Mister Paterson had time to realize what was happening, Granfather had adroitly changed the subject by asking, "But wot are you doing up so early? You gen'rally sleep in till dinner-time on Sunday. Our children annoyin' you?"

Stringbark Paterson was not a passionate man—nor one to retain animosity for long against anybody—hence the unwanted spectacle of Granfather Thickbroom reading a weekly paper on Sunday morning had been sufficient to drive his



Granfather shook his head and smiled. "It's not him," he said, quietly.

and the Army was a religious organization, she was not concerned. As for the neighbours—they were used to it.

Having satisfied his conscience by the desperate concentration necessary to read through the sermon, Granfather gave vent to a sigh of relief, and turned back abstractedly through the pages—taking here and there a mental bite (so to speak) of the forbidden fruit of worldly news.

In the midst of this doubtful occupation and the pandemonium raised by the marching "soldiers," he gradually became conscious that someone was calling him by name. Hurriedly thrusting the paper aside, Granfather rose as quickly as his stiffened limbs would permit and looked about him. The speaker being directly in front of him, leaning over the fence from the next yard, was, of course, the last object to come within the range of the aged man's vision; but, after looking in all directions save the right one, he must needs eventually look in that direction also, where he at once discovered the round eyes of "Mister" Stringy Paterson regarding him and his paper with unbounded astonishment.

"Ho, it's you, Stringy, is it?" he cried, in tones of relief, when he had assured himself as to the visitor's identity. "Yes, it's me," Mister Paterson replied, slowly. "Any news?" he added as a kind of afterthought.

"Hay?" Granfather inquired, putting his hand behind his ear and looking interrogatively at Stringy, with his mouth open.

"Any news?" I said. Any good news—or anything?"

"I wasn't reading the news," Granfather explained, coldly. "I was reading the sermon."

"I always thought they printed the sermons in the back of the paper," Mister Paterson remarked, pointedly.

"Hay?" Granfather inquired again— not that he did not hear—he was mercifully

personal wrongs from his mind; but the ancient man's question recalled them to him.

"It's them darned Duffies," he said, angrily. "I come home here Saturday night, and after tea put a candle in the bucket, and laid the bucket down by the wood-heap, and by the light of that candle I set to and cut up enough wood to last us all day Sunday, and I piled it up there in the shed to keep it dry—and this morning, when the missus got up to light the fire, there wasn't a blooming stick of it left. That's how I'm up so early. After cutting all that wood last night I had to get up and sail into it again this morning—when I should have been enjoying my hard earned rest in bed."

"Somebody been and shook your wood?" Granfather asked, with an appalled look, for "wood-shaking," in the eyes of every respectable Timboonite, was akin to manslaughter.

"Shook it? Yes; and it's not the first time neither. I can't keep a log of wood in the yard for 'em, and if it wasn't for that bull-tarrier of your's, you'd be the same."

"Hay?" Granfather asked, thrusting his face as near to that of Mister Paterson as the fence would allow. He had missed the last two sentences owing to a demonstration of unusual power on the part of the "Army."

"I said if it wasn't for old Peter, your bulldog, being in the yard, you wouldn't be able to keep any wood neither,"

Granfather shook his head and smiled.

"It's not him," he said, quietly.

"Not him?" Mister Paterson echoed; "then I'd like to know who it is. I'll swear it aint Jerry—nobody's frightened of him."

Jerry was the father of the young Clydesdales.

"No," Mr. Thickbroom agreed; "it ain't Jerry."

Big Ben



Made in La Salle and Peru, Ill., by Wintcox

A crackerjack of a Xmas present

Remember when you were a kid? The presents that were all shiny and bright, and that "worked!" Weren't they the ones that you were proudest of?

of thinking they don't feel the compliment.

Something for your room—something you could use all year—something like big people had in their rooms. The sensible presents appealed to you best when you were a kid. Think back a bit and see. Then think of Big Ben for those boys and girls.

Let one thing that meets the eye of your little boy and girl on Christmas Morning be that triple nickel-plated, jolly, handsome, pleasant looking, serviceable, and inspiring clock—BIG BEN. See if you don't hear them say: "Why! Isn't that a crackerjack. Is that for me to use myself?"

Toys, of course, should never be displaced. It wouldn't be Christmas without them. But mix in useful things—things that develop pride and that make little people feel responsible. Give them presents to live up to and to live up with. Don't make the mistake

Big Ben is a crackerjack of a Christmas-present to give to any friend. He's two presents in one, a dandy alarm to wake up with, a dandy clock to tell time all day by. He stands seven inches tall. He's got an inner vest of steel that insures him for life—big, bold, black hands you can see at a glance in the dim morning light without ever having to get out of bed—large, comely keys that almost wind themselves and a deep, jolly ring that calls just when you want, and either way you want, five straight minutes or every other half minute for ten minutes unless you bag him off.

Big Ben is sold by 23,000 watchmakers. His price is \$2.50 anywhere in the States. \$3.00 anywhere in Canada. If you can't find him at your dealer's, a money order mailed to Wintcox, La Salle, Illinois, will send him anywhere you say, attractively boxed and express charges paid.

Big Ben Alarm Clocks

ARE ILLUSTRATED IN THE CATALOGUE OF

D. R. DINGWALL, Limited

JEWELLERS, WINNIPEG

WRITE FOR A COPY OF THIS BOOK

You saw this advertisement in this magazine. Don't forget to say so when writing.

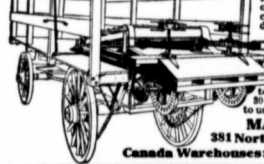
Stop "Soil Blowing"

Straw spread evenly over the ground either before or after seeding or right now on the snow in the surest in fact the only satisfactory method of preventing soil blowing. If you live in the blow section or on a sandy farm you can't afford to go another year without a straw spreader.

Curtis Brown says: "It is just the making of my farm. I made over \$500 by spreading straw this year—my land never blown a bit." Jack McManish says: "You ought to see the difference where we used the spreader and where we did not."

Straw contains valuable fertilizing properties, such as phosphorus, nitrogen and potash. It is worth \$2.50 a ton for plant food, furnishing a large amount of organic matter, and placing the ground in better physical condition. Better crops are assured every farmer who uses a

"Simplex" Straw Spreader



Saves its cost in 3 days use. Saves three-fourths of the work of spreading straw and handles old stack bottoms or manure as well as new straw. Can be attached to any rack or hay frame in a short time. Easy to put on or take off. Easy to operate. Strongly built, can't be broken. Works equally well on windy or calm days. Light draft.

Special FREE TRIAL Offer!

Simplex Straw Spreaders are sold throughout the United States and Canada by scores of leading implement dealers. If we have no dealer in your section write today for our 32 page 2-color Straw Spreader Book and our 30 Day Free Trial Offer. We will deliver you our spreader to use on your own farm 30 days Free. Write us today.

MANSON CAMPBELL COMPANY, 381 North 1st Street, Minneapolis, Minn., U. S. A. Canada Warehouses: Brandon, Manitoba. - Chatham, Ont.

You saw this advertisement in this magazine. Don't forget to say so when writing.

ENGLISH HAND-MADE LACE

Made by the Village Women of Buckinghamshire, Eng.

The BUCKS Lace Makers

were awarded the Gold Medal for general excellence of workmanship at the Festival of Empire and Imperial Exhibition, Crystal Palace, London, Eng., 1911. Beautiful collars, Handkerchiefs, Sets, Fronts, Yokes, Berthes, Fichus from \$1.00, \$2.00, \$3.50 up. Medallions, 5c, 10c, 15c, 20c each. Tea and Tray Cloth Borders, D'Oylios, Mats, 80c, \$1.00, \$2.00, \$3.00 each. Dainty Aprons, Waists, Robes, and all lingerie made in many styles, all hand-worked and trimmed with this famous Buckinghamshire lace. Exquisite Vanity Bags, Nightdress Cases, Tea Cosies, Table Centres, Infants' Bonnets, and Bibbs, etc., made with pure linen threads. This real Bucks lace, with due care, will last a lifetime, and gives that touch of refinement and distinction so much desired by ladies of good taste. Send for the treatise entitled, "The Pride of North Bucks," a copy of which has been graciously accepted by Queen Mary, her Majesty being a patron of the Bucks lace industry. This booklet is sent post-free to any ladies interested, and contains many interesting facts relating to the work. Owing to the war, the lace-makers in England are practically destitute, and to continue the industry, Mrs. Armstrong has sent the finished pieces over to Toronto, hoping that Canadian ladies will avail themselves of this opportunity of acquiring some beautiful lace, and at the same time supporting this very deserving industry. A great number of village women depend solely upon their lace-pillow for a livelihood. Every sale, however small, is a help. Write at once to MRS. WINNIE ARMSTRONG'S LACE INDUSTRY, 363 Spadina Ave., Toronto, Canada.

Name this magazine when writing advertisers

FURS

- ☞ Furs repaired - remodelled - Made to order.
- ☞ Workmanship first class. Satisfaction guaranteed.
- ☞ My prices are right at any time but for work to be done after Xmas I will give special reductions.

A. J. URQUHART
FURRIER
401 DONALDA BLOCK.
WINNIPEG

Name this magazine when writing advertisers



ONE DAY SERVICE
We will ship your parcel within one day of the time we receive your order.
WE PAY DELIVERY CHARGES on every article catalogued to your nearest Post Office. A post card will bring our big catalogue to you free.
THE ROBERT SIMPSON COMPANY LIMITED
TORONTO

Mister Paterson was moved almost to excitement.

"Then if it's not old Peter, and it's not Jerry, who is it?" he demanded. "Me," said Granfather, simply, gazing modestly on the ground.

"You!" Stringy almost shouted. "You! Why, wot have they got to be frightened of you for? You're eighty years old. You can't run for sour apples. You're as deaf as a beetle, and if you did happen to catch 'em wot could you do? Why, them young Duffies—"

"All the same" quoth Mr. Thickbroom, with some heat, interrupting, "it's me they're frightened of—and that's why they never shake our wood."

"Oh, well, have it your own way," answered Mister Paterson, in tones of resignation; "but still I can't make out why they should be frightened of you."

Granfather would hear no more. "Did you never hear," he said, in low and driling tones, "wot I hid to the Dobbles when they was shaking my wood?" Stringy admitted he had not, and added, "I never knew the Dobbles shook your wood."

"Well, they did," Mr. Thickbroom affirmed, nodding. "And I let 'em go up to a certain point; then I stopped 'em; and the way I done it put the fear of me into all the lawbreakers in the forest; and from that day to this I've never had another log of wood shook."

Mister Paterson was visibly impressed. "I never heard about it," he said.

"No," the aged terror responded, proudly; "and a good reason, too. They was that flab-basted and bottled up that they couldn't abear to speak of it afterwards. The way I done was this. When Jerry was a boy, me and him was up in the forest cutting wood for the engine at the mill, and last thing every day we used to stack wot we cut, and measure it. Well, one morning when we got there I seen the tracks of cart-wheels on the ground, and about a ton of our wood was gone. Same thing happened a few nights later, and kept going on till I got sick and tired of it. So, one night as soon as tea was over, I loaded up my Winchester repeater, and went back as fast as I could to where we'd been cutting that day, and climbed



Simultaneously with the report, the atmosphere was filled with dust and ashes, pieces of brick and flying planks.

up into the fork of a big tree, where I couldn't be seen. By and by, after I'd been waiting a bit, I heard the sound of a cart coming, and then who should come along but old Doble and young Doble? It was clear moonlight where the wood was stacked, and they backed the cart in and begun to load her up. Well, I waited until I made sure, and then I took aim, and let fly at the piece old Doble was lifting into the cart. The bullet knocked it clean out of his hands, and you never saw such a surprised man in your life. Him and young Doble gave a yell, and then they stood looking at one another for ever so long, seemingly not knowing wot to make of it. Then they looked at the log, and seemingly couldn't make anything of that. And at last young Doble he gives a laugh like as though he didn't believe it, and picks up the log, and was just going to put it in when I let fly again and knocked it kicking. Well, then you should have seen 'em—they



MANY BRANDS OF BAKING POWDER CONTAIN ALUM WHICH IS AN INJURIOUS ACID. THE INGREDIENTS OF ALUM BAKING POWDER ARE SELDOM PRINTED ON THE LABEL IF THEY ARE. THE ALUM IS USUALLY REFERRED TO AS SULPHATE OF ALUMINA OR SODIC ALUMINIC SULPHATE.

MAGIC BAKING POWDER CONTAINS NO ALUM

THE ONLY WELL-KNOWN MEDIUM-PRICED BAKING POWDER MADE IN CANADA THAT DOES NOT CONTAIN ALUM, AND WHICH HAS ALL ITS INGREDIENTS PLAINLY STATED ON THE LABEL.

E. W. GILLETT COMPANY LIMITED
WINNIPEG TORONTO, ONT. MONTREAL.

You saw this advertisement in this magazine. Don't forget to say so when writing.

Winnipeg Co-Operative Society, Ltd.

Incorporated 1913

440-442
Notre Dame Ave.



Winnipeg,
Man.

Leading Lines for Christmas at Special Prices

| | | | |
|---|----|---|--------|
| Finest Cleaned Currants, 5 lbs. | 75 | Christmas Crackers, 15c, 20c, 25c, 35c, 50c. per box. | |
| Choice Sultana Raisins, 4 lbs. | 60 | | |
| Choice Raisins, 3 lbs. | 45 | | |
| Mixed Peel, 3 lbs. | 55 | Granulated Sugar, 100 lbs. | \$7.20 |
| Spices, assorted, 3 pkts. | 25 | Powdered Sugar, 6 lbs. | 58 |
| Baking Powder, 3 lb. tin | 50 | Icing Sugar, 6 lbs. | 58 |
| Baking Powder, 5 lb. tin | 75 | Yellow Sugar, 6 lbs. | 48 |
| | | Shelled Almonds, per lb. | 60 |
| Canned Pears, 3 tins | 45 | Shelled Walnuts, per lb. | 60 |
| Canned Raspberries, 3 tins | 65 | | |
| Canned Greengage Plums, 3 tins. | 40 | Fine assortment of Huntly & Palmers Biscuits 25c. and 35c. per lb. | |
| Canned Lombard Plums, 3 tins | 30 | Peak Freens Biscuits 25c. and 35c. per lb. | |
| Canned Pineapple, 3 tins | 45 | Honey, 15c., 25c., 35c. per jar. | |
| Canned Tomatoes, 3 tins | 35 | Honey Comb, 35c, special quality. Prunes, 10c. and 15c. per lb. | |
| Canned Soups (Very Special), 5 tins | 25 | Finest Ceylon Tea, 3 lb. tin, \$1.00 Co-operative Tea 30c, 40c, 50c. per lb. | |
| | | Chocolate Candies in fancy boxes 10c, 20c, 25c, 50c, 95c, \$1.25 up. Mixed Candies, 2 lbs. for 39c. | |

ALL PRICES QUOTED F.O.B. WINNIPEG

Orders shipped same day as received. Terms Cash with order. A Trial Solicited. Satisfaction guaranteed.

You saw this advertisement in this magazine. Don't forget to say so when writing.

Light and Ignition



For Your Gasoline Tractor

Plow at Night with Perfect Light

Eureka Lite

Prices \$24.00
And U, According to Capacity Required.

Special Attachments for Ford, Maxwell and other Cars.

Large Profits to Dealers.

Write for Particulars To-day.

The Fact Is With Our Eureka

You can light almost any old car as light as day, But you can't afford to light a Ford in any other way.

Low Cost—High Efficiency

Used with or without Storage Battery

HENRICKS NOVELTY CO.
1504 St. Paul St. INDIANAPOLIS, INDIANA

You saw this advertisement in this magazine. Don't forget to say so when writing.



Why Not a Grafonola

As a Christmas Gift?

For Father—Mother—Wife—in fact any member of the family would appreciate it, and all could enjoy it.

Bring music into the home that will be welcome not only on Christmas Day but throughout the New Year.

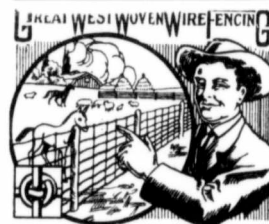
Columbia Grafonolas are unequalled for dance music, and unequalled entertainers when friends drop in to spend the evening.

12 Records with Each Machine

And choose the records the recipient would enjoy the most from our large list of standard 10-inch double disc records. Christmas buyers may take advantage of our easy payment system on this special offer, \$7.50 cash and \$7.50 monthly, or pay cash if they prefer (\$7.5).

For Catalogue of other machines and further details write

WINNIPEG PIANO CO.
333 PORTAGE AVENUE, WINNIPEG.



New Light on Fencing

A square deal is not necessarily the best deal. It is a square deal for a firm to sell you a good fence for say 20c per rod, but it is a better deal to buy a better fence from another firm for the same money.

There are a lot of good fences to be bought but some are better than others.

THE "GREAT WEST" FENCING IS THE STANDARD FENCE OF ALL.

The Great West Wire Fence Co. Ltd.
76-82 Lombard Street
WINNIPEG, MAN.

160 POST CARDS FREE

SEND US THE FOUR NEW YEAR & CHRISTMAS CARDS BEING ISSUED BY THE GREAT WEST WIRE FENCE CO. AND GET 160 FREE. No two alike. Beautifully colored. Best. Fine included in every order. Great value. Forgetting not possible. Money back if not highly pleased.

EMPORIUM CO.
Box L. BEEBE, QUE.

didn't know which way to look. After a while, however, they made up their minds to go on, and old Doble he reaches for another piece. I waited till he thought he was safe, and was just getting it in the cart, and then I sent it flying. At that old Doble jumped right in himself and grabbed the reins. Young Doble he stooped and picked up the tail-board, and was just going to throw it in the cart when I put a bullet through that, and sent it for yards. Then he gave a howl and jumped in beside his father, and the pair of 'em lammed into the horse something unmerciful, and went lick for smack down the hill through the trees. And from that day to this, the terror to law-breakers concluded, 'I've had no trouble. The Duffies is the Doble's cousins, and they know all about it—and the fear of me is better in this yard than forty bulldogs.'

Mister Paterson listened with tremendous interest to this graphic tale; and when it was finished spent a minute or so in deep reflection. Then he remarked: 'Well, if you could do that out in the forest, wot's to hinder you from sitting up some night in my shed with your Winchester? I'd give anything to see you and them young Duffies.'

'No,' Granfather broke in upon him; 'that wouldn't do at all. Why, if I was to stay out after dark, Emmer and Jerry would have all Tin boon out with lanterns looking for me. No, that wouldn't do at all; but if you really want to fix them young Duffies, I could put you up to a way of doing it.'

'Well, I do want to fix 'em,' Stringy replied firmly; 'and if you can tell me how, I'll jolly soon do it.'

'All you've gotter do,' Granfather answered, with the unction of a school teacher imparting wisdom to a backward pupil, 'is to bore a hole in a likely log, stuff it full of gunpowder, and cork it up with a bit of clay. Leave the log where they can't help picking it up, and they'll do the rest.'

Stringy's gentle, round, rabbit eyes grew rounder than ever as to the possibilities of this novel scheme dawned upon him.

'Put, I say,' he cried presently, as a possible objection began to shape in his mind, 's'pose the chin ley got blown up, how would it be then?'

'Serve 'em jolly well right!' Mr. Thickbroom replied, without hesitation. 'It'll learn 'em not to be shaking your wood.'

'Ye-es certainly,' Mister Paterson responded, uncertainly; 'but wot I was thinking of was, how would I stand in a court of law?'

A shade of something akin to impatience passed over the patriarchal countenance of Granfather Thickbroom, as he scornfully echoed Mister Paterson's words.

'Court of law! Court of law! Do you think them young Duffies would be sich ow-tray-shus fools as to summons you—when, to prove their case, they'd have to go into the dock and swear they stole your wood? Don't you believe it. They may be wood-shakers—them young Duffies—but they ain't wot you might call larvae under the hat—not by no means.'

Mister Paterson bowed submissively before this weight of reasoning and evident knowledge of the technicalities of the law.

'Then, by Jingo,' he said, with grim determination, 'I'll do it; only you have to promise me you'll never say anything about it.'

'I give you my word and honour,' Granfather responded, solemnly. 'That I'll never breathe a word to a living soul, no matter wot happens.'

People rise early in Tin-boon, and the sun was not yet up when Mister Paterson and Granfather Thickbroom met again at the fence. Inside their respective abodes the fires had been lit for some time, and Mrs. Paterson and Mrs. Thickbroom was busily preparing breakfast.

Mister Paterson's teeth were chattering in his head—though not with cold.

'Did you do it?' Granfather inquired. 'Yes, I did,' Stringy replied, in tones of dejection, not to say remorse. 'I bored a deep hole and rammed it full of blasting powder—and fixed it so as no one should know—unless they was looking for it.'

'And has the log been took?'

'It has,' Stringy answered, tremblingly. 'I just been to see, and I wish to goodness I never heard of sich a thing. I ain't had a wink of sleep all night thinking of wot might happen. How would it be if some-one was killed?' he asked, in a hoarse whisper.

Sow Clean Seed!

Stratford Automatic Grain Picker

Liberal Trade Discount to Dealers

There is nothing to equal it. It is a one man Picker. The "Stratford" requires no power to drive it, and treats every kernel, and requires less solution than any other. Capacity 75 to 125 bushels per hour. Write for Catalogue and Price.

Address—MACDONALD THRESHER CO. Ltd., Box 1296 Winnipeg, Man.

Finest Possible Results

in every description and detail of
ARTISTIC TAXIDERMY

Game heads, birds, wild or domestic animal—regardless of size—displayed and mounted in perfect keeping with their natural environment. My scientific method of preserving absolute guarantees any skin or animal texture against insects or decay.

NO MONEY IF NOT DELIGHTED. TRY ME ONCE

FRANK TOSE SUCCESSOR TO 173 Fort St.
JOHN AMBROSE WINNIPEG
PHONE MAIN 5185 Send for Price List

Steam or Gas Tractors

Equipped with
PICKERING
[THE GOVERNOR WITHOUT JOINTS]

give greatest efficiency

FITTED TO EVERY BUILD OF ENGINE

Patent Ball Ranger Speed Changer Supplied on all Genuine Pickering Governors. Will increase speed 50% or more.

The Pickering Governor Co.
PORTLAND CONN., U.S.A. TRADE MARK REGISTERED

OXY-ACETYLENE WELDING

Mr. THRESHERMAN:

If anything breaks or is worn out on your threshing machine or traction engine have it welded. Your time is valuable and we are at your service. Tell us your troubles. Send the broken parts to us or ask us to come to your place. No waste of time and no trouble to us. We are the pioneers of the process. We are experts and guarantee our work. Lowest prices.

L'AIR LIQUIDE SOCIETY, 325 William Ave., Winnipeg, Man.
Largest manufacturers of Oxygen and Welding Plants
Ask for information and newest catalogue.

You saw this advertisement in this magazine. Don't forget to say so when writing.

Phone MAIN 3366

THOMAS ANDERSON
Chartered Accountant

106 Bank of Nova Scotia Building
Winnipeg, Man.

AGENTS WANTED
in Every Town and District

Shipments made out from Galt, Ont. and Winnipeg, Man.

Address to Head Office

Canadian Hog Motor Co. Ltd.
92 Alexander Ave. East Winnipeg, Man.



SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

THE sole head of a family, or any male over 18 years old, may homestead a quarter-section of available Dominion land in Manitoba, Saskatchewan or Alberta. Applicant must appear in person at the Dominion Lands Agency or Sub-Agency for the District. Entry by proxy may be made at any Dominion Lands Agency (but not Sub-Agency), on certain conditions.

Duties—Six months residence upon and cultivation of the land in each of three years. A homesteader may live within nine miles of his homestead on a farm of at least 80 acres, on certain conditions. A habitable house is required except where residence is performed in the vicinity.

In certain districts a homesteader in good standing may pre-empt a quarter-section alongside his homestead. Price \$2.00 per acre.

Duties—Six months residence in each of three years after certain homestead patent, also 30 acres extra cultivation. Pre-emption patent may be obtained as soon as homestead patent, on certain conditions.

A settler who has exhausted his homestead right may take a purchased homestead in certain districts. Price \$1.00 per acre. Also, 30 acres extra cultivation. Pre-emption patent may be obtained as soon as homestead patent, on certain conditions.

W. W. CORY, C.M.G.,
Deputy of the Minister of the Interior
N.R.—Unauthorized publication of this advertisement will not be paid for.—4188.

Imperial Bank
OF CANADA
Established 1878

Capital Authorized \$10,000,000
Capital Paid Up 7,000,000
Reserve and Undivided Profits 7,000,000

BRANCHES IN WESTERN CANADA

Province of Manitoba
Brandon Portage la Prairie Winnipeg

Province of Saskatchewan
Saskatoon Broadview North Battleford
Regina Fort Qu'Appelle Prince Albert
Wynyard Moose Jaw Regina
Wynyard Hague Wynyard

Province of Alberta
Athabasca Landing Edmonton Strathcona
Banff Lethbridge Wetaskiwin
Calgary Red Deer Redcliff
Rocky Mountain Hse. Medicine Hat Millet

SAVINGS DEPARTMENTS AT ALL BRANCHES

Interest allowed at Current Rates
Drafts and Letters of Credit issued available in all parts of the world.

Winnipeg Branch
N. G. LESLIE,
Manager.

Wanted Traveling Salesmen

Extensive opportunity. Earn Big Pay while you learn. Write for full particulars and testimonials from hundreds of our students who earn 100% profit a month. Address: NATIONAL SALESMEN'S TRAINING ASSOCIATION, Chicago, New York, Boston, etc., Box 114-1464.

Duro Violins
Victoria Mandolins and Guitars
Stewart Banjos

Have a World-wide Reputation.

Installment Payments Accepted. Get Particulars

ROYAL M.U.C. COMPANY
460 Spadina Ave., Toronto

"Don't you fret," Granfather replied, jauntily; "that's their look-out, not yours. I never lost any sleep—not a minute—and I got up this early so as to see the fun. I'm going to stay here and watch Duffie's house from the minute I see the smoke coming up outer the chimney, and if anyone gets their head blown off it serves them jolly well right."

Whether or not Granfather had concluded his remarks it is not now possible to say; but he had got thus far when he was interrupted in a manner so startling and so terrible that to this day Mister Paterson shudders whenever he recalls it to mind.

The bottom part of the chimney attached to the Thickbroom mansion was composed of enormous bricks of unbacked clay, walled in with broad, upright planks of rough-hewn timber. At the top of these the chimney narrowed, and all the upper part was of wood, and directly at the conclusion of Mr. Thickbroom's pronouncement the whole of the lower part of this structure—impelled by some tremendous power within—suddenly burst asunder with a shock of such terrific and appalling nature that it rattled the windows and crockery in every house in Timbison. This was followed by a muffled roar like the discharge of heavy artillery fired in a cave close at hand.

Simultaneously with the report the atmosphere was filled with dust and ashes, pieces of brick, and flying planks. And it was one of the latter, winging its way heavily and horizontally across the yard at a low altitude, that brought Granfather's eloquence to an abrupt termination. It caught him lengthways and violently at the back of his knees, mowing him down like a swath of corn. Mister Paterson was saved by the fence.

Following immediately upon this surprising tragedy, the upper part of the chimney fell to earth with a loud crash. Then arose a series of ear-splitting screams and yells from the interior of the house but before the horrified Striney could scale the fence to the rescue, the back door flew open, and Mr. Thickbroom, junior, in shirt and trousers, but no boots, followed closely by Mrs. Thickbroom, and the young Thickbrooks, bolted out into the yard.

The only one really hurt, however, was Granfather, who complained for a long time afterwards of pains in the back of his knees. But even Granfather was more hurt in mind than in body. For the moment he recovered sufficient to be able to realize what he had taken place, all delusions as to the rhabdomy of Mister Paterson's wood-yard fell from his eyes, and he regarded his son and heir with a kind of horror, and almost wished he had perished in the explosion.

All Timbison was quickly upon the scene, and the first to arrive, in a half-dressed condition, ready and eager to help, were the two young Duffies.

In response to the universal inquiry as to what had happened, the excited neighbourhood learned that Mrs. Thickbroom had arisen first, as her custom was, and, having lit the fire and put the porridge on, had returned to the bedroom for the purpose of dressing the youngest of the family. By that time Jerry also had bestirred himself, and the morning being cold had come forth and seated himself by the fire that he might finish his toilet in comfort, when the dreadful thing happened. The shock of it flung him against the wall on the opposite side of the room, and but for the fact that the charge had gone outwards through the chimney instead of backwards into the room, Jerry was convinced that nothing in the world could have saved him from being blown to "hatons."

In the days of excitement which followed this unparalleled event the more thoughtful people in Timbison advanced many theories, all of them deeply philosophic and scientific, to account for what had taken place; but the one which obtained most credence at the time, and has since passed from the world of speculation to that of positive fact, is that eventually advanced by Jerry himself—namely, that the place was struck by a thunder-bolt from heaven.

Nevertheless, Mister Paterson notes, with a kind of chastened satisfaction, that ever since the explosion his wood-heap abides in peace, while Jerry gets all that is necessary for the Thickbroom requirements from the forest, in broad daylight.

Blue Ribbon Tea
Same Old Price
and
A Long, Long Way
the Best

NEW GOAL OIL LIGHT BEATS ELECTRIC OR GASOLINE
10 Days FREE—Send No Money

We don't ask you to pay us a cent until you have used this wonderful modern light in your own home ten days, then you may return it at our expense if not perfectly satisfied. You can't possibly lose a cent. We want to prove to you that it makes an ordinary oil lamp look like a candle; heats electric, gasoline or acetone. Lights and is put out like old oil lamp. Taste at a number of leading Universities show it.

Burns 70 Hours on One Gallon
common coal oil, no odor, smoke or noise, simple, clean, won't explode. Three million people already enjoying this powerful, white, steady light, nearest to sunlight. Guaranteed.

\$1,000.00 Reward
will be given to the person who shows us an oil lamp equal to the new Aladdin in every way (details of offer given in our circular). Would we dare make such a challenge if there were the slightest doubt as to the merits of the Aladdin? GET ONE FREE. We want one user in each locality to whom we can refer customers. To that person we have a special introductory offer to make, under which one lamp is given free. Write quick for our 10-Day Absolutely Free Trial Proposition and learn how to get one free.

MANTLE LAMP CO., 493 Aladdin Bldg., Montreal and Winnipeg, Canada
Largest Manufacturers and Distributors of Coal Oil Mantle Lamps in the World.

THE BEST
Anti-Friction
BABBITT
On the Market is
The Frost King

The "Frost King" is the product of our long years of experience and is without doubt the most reliable Anti-Friction Babbitt made to-day. It is specially designed for Threshing Engines, Separators and machinery of all kinds. If your dealer does not stock this metal, write us for a 30-pound box at 37c. per pound, or a 60-pound box at 35c. per pound. These are delivered prices. Please send money order to avoid delay.

Hoyt Metal Co. Eastern Ave. and Lewis St.
TORONTO
FACTORIES—London, Eng.; Toronto, New York, and St. Louis

WE PAY HIGHEST PRICES FOR RAW FURS

We receive more shipments of Raw Furs than any five houses in Canada

FREE

HALLAM'S TRAPPERS
GUIDE (French or English)
HALLAM'S TRAPPERS SUPPLY CATALOG (Illustrated) and HALLAM'S RAW FUR QUOTATIONS worth \$50.00 to any Trapper

WE SELL ANIMAL BAIT TRAPS GUNS &c.

LOWEST PRICES

JOHN HALLAM LIMITED Write To-day—Address
"Duck 558" **TORONTO**

LOOK!
WE want a Representative
in YOUR District.
Every Attention and Liberal
Commission Paid Agents
 Write today for particulars to
ANGUS ELLIOTT, Supt. of Agencies
North American Life
Assurance Company
BIRK'S BUILD'NG WINNIPEG

Name this magazine when writing advertisers

SHIP YOUR
 DRESSED
Hogs in Quarters
 (ALSO YOUR)
Eggs and Butter
 TO
Central Farmers' Market
 ASSOCIATION
R. MCKENZIE, PRESIDENT
WINNIPEG, MAN.
 (And Receive Full Value!)

Name this magazine when writing advertisers

CHALLENGE COLLARS
 Acknowledged to be the finest creation of Water-proof Collars ever made. Ask to see, and buy no other. All stores or direct for \$5.
THE ARLINGTON CO. of Canada, Ltd.
 88 PRINCE AVENUE TORONTO
MADE IN CANADA
 All "ARLINGTON COLLARS" are good, but our **CHALLENGE BRAND** is the best

Name this magazine when writing advertisers

Desires increase Your Sales
 Take a Look at the **Strite Governor Pulley**
 It's the original and the only thing for driving cream separators with gasoline engines. One size, always standard. **TRY ONE!** More in use than all other combined. Costs no more than imitation. **ALSO ask about our friction clutch pulleys.**
STRITE GOVERNOR PULLEY CO. 310 N. 3RD ST., MINNEAPOLIS
 Name this magazine when writing advertisers

PATENTS & CO. LTD.
LLOYD BLACKMORE & CO. LTD.
 Hope Bldg. 43 Sparks St., Ottawa, Ont.
 Write for Free Book of Information.

Well Drilling Machines
 Over 700 feet and either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on tracks or horse. **WILLIAMS BROS. ITRACA, N. Y.**
 Name this magazine when writing advertisers

Some Ginger for the Christmas Pudding

Modesty.
 Tourist—I've come three thousand miles to see your beautiful sunset.
 Alkali Ike—Someone's been stringin' ye, stranger. It ain't mine.

Trained Horse Wanted.
 Anne had been buggy-riding with her beau, William, and the horse had run away. When asked by her mother how it happened she replied:
 "Well, you see, William thought he had his feet on the lines."

Explicit, But Incriminating.
 A bailiff went out to levy on the contents of a house. The inventory began in the attic and ended in the cellar. When the dining-room was reached the tally ran like this: one dining-room table, oak; one set chairs (six), oak; one sideboard, oak; two bottles whiskey, full."

Then the word "full" was stricken out and replaced by "empty" and the inventory went on in a band that straggled and lurches diagonally across the page until it closed with: "One revolving door-mat."

"Yesterday is dead; forget it. To-morrow does not exist; don't worry. To-day is here; use it."

Pretty Hard to Believe.
 The automobile was a thing unheard of to a mountaineer in one community, and he was very much astonished one day when he saw one go by without any visible means of locomotion. His eyes bulged however, when a motorcycle followed closely in its wake and disappeared like a flash around a bend in the road.
 "Gee whizz!" he said, turning to his son, "who'd a' sposed that thing had a colt?"

Prepared for Emergencies.
 Speaking of accommodating hotel clerks, the best I ever saw was in a certain Maine town. I reached the hotel late in the evening. Just before retiring I heard a scampering under the bed and saw two large rats just escaping. I complained at the office. The clerk was as serene as a summer breeze.
 "I'll fix that all right," he said.
 "Front! Take a cat up to room 23 at once."

It All Depends.
 When James A. Garfield was president of Oberlin College a man brought for entrance as a student his son, for whom he wished a shorter course than the regular one.
 "The boy can never take all that in," said the father. "He wants to get through quicker. Can you arrange it for him?"
 "Oh, yes," said Mr. Garfield. "He can take a short course; it all depends on what you want to make of him. When God wants to make an oak He takes a hundred years, but He only takes two months to make a squash."

Little Jack was visiting a ranch and was out at the barn one morning watching his uncle feed hay to the horses. It troubled him to see them given only dry hay and oats. Finally, he said in a tone of sympathy, "Never mind, old horses, we have to eat breakfast food ourselves."

UNION BANK OF CANADA

Established 1868
Head Office Winnipeg
 Paid-up Capital \$5,000,000
 Reserve 3,400,000
 Total Assets, over 88,000,000
HOW PRESIDENT W.M. PRICE, Esq.,
PRESIDENT - JOHN GALT, Esq.,
VICE-PRESIDENTS
 R.T. RILEY, Esq. G.H. THOMSON, Esq.
DIRECTORS
 W. R. ALLAN, Esq.
 Hon. S. BARKER, P.C., M.P.
 M. BULL, Esq.
 Col. JOHN W. CARLSON,
 H. B. CROFTON, Esq.
 E. L. DREWRY, Esq.
 E. E. A. DU VERNET, Esq., K.C.
 S. HAAS, Esq.
 F. E. KENASTON, Esq.
 W.M. SHAW, Esq.
 J. S. HUGHES, Esq., K.C.
 G. H. RAIFORH, General Manager
 H. B. SHAW, Assistant General Manager
 F. W. S. CRISPIN, Superintendent of Branches
 London, Eng., Branches: # Princes St., E.C., and West End Branch, Haymarket, S.W.
 This Bank, having over 310 branches in Canada, extending from Halifax to Prince Rupert, offers excellent facilities for the transaction of every description of banking business. It has correspondents in all cities of importance throughout Canada, the United States, the Continent of Europe, and the British Colonies.
 Collections made in all parts of the Dominion, and returns promptly remitted at lowest rates of exchange.

Head Office, Winnipeg.
Two Central Offices in Winnipeg—Main St. & William Ave., D. M. Neves, Manager. Portage Ave., Cor. Garry St. (adjoining Post Office), F. J. Boulton, Manager.
Other Branches in Winnipeg as follows: Gordon Ave., Logan Ave., North End, Sargent Ave., Portage Ave. and Arlington St., Sargent Ave. and Arlington St., 900 Portage Ave.
Branches and Agencies West of the Great Lakes
Manitoba—Haldur, Birtle, Boissevain, Brandon, Carberry, Carman, Carroll, Clearwater, Crystal City, Cypress River, Dauphin, Deloraine, Glenora, Hamiota, Hartney, Hulinand, Killarney, Manitow, McCreay, Melita, Minnedosa, Minto, Morden, Neepawa, Neudale, Niangua, Rapid City, Rolton, Roland, Russell, Shoal Lake, Somerset, Souris, Strathclair, The Pas, Virlet, Waskada, Wawanesa, Wellwood, Winnipeg.
Saskatchewan—Abbey, Adanac, Aleski, Arcola, Assiniboia, Assinibois, Bountey, Buchanan, Cabri, Canora, Carlyle, Craik, Cypar, Cut Knife, Dismore, Dumfries, Eastend, Esterhazy, Estevan, Eyebrow, Fillmore, Greenburg, Guernsey, Gull Lake, Herbert, Houghton, Humboldt, Indian Head, Jansen, Kelfield, Kerrobert, Kinsley, Langr, Lang, Lanigan, Lawton, Leask, Loversna, Lumsden, Lussland, Macklin, Maple Creek, Maryfield, Macleod, Melfort, Milestone, Moose Jaw, Moosemin, Morse, Netherhill, Neudorf, Ogema, Outlook, Oxbow, Pemma, Pelly, Pigeon, Pelly, Prince Albert, Qu'Appelle, Regina, Roberts, Rocanville, Rosetown, Saskatoon, Scott, Sceptre, Shaunavon, Simpson, Sinitaluta, Southey, Strassburg, Swift Current, Tessier, Theodore, Togo, Tompkins, Vanguard, Vidora, Verigin, Viceroy, Wapella, Wawota, Watrous, Webb, Weyburn, Wilkie, Windthorst, Wolsley, Yorkton, Zealandia.
Alberta—Airdrie, Alix, Barons, Bashaw, Bassano, Bellevue, Blackie, Blairmore, Bowden, Bow Island, Brooks, Bruderheim, Calgary, Carbon, Cardston, Carlstadt, Carstairs, Cereal, Chinook, Claraholm, Cochrane, Consort, Cowley, Didsbury, Edmonton, Empress, Foremost, Fort Saskatchewan, Grande Prairie, Grassy Lake, Hanna, High River, Hillcrest, Innisfail, Irvine, Jenner, Lacombe, Langdon, Lethbridge, Macleod, Medicine Hat, Okotoks, Pasburg, Picher Creek, Seven Persons, Standard, Strathmore, Swainsville, Three Hills, Wainwright, Winnipeg.
British Columbia—Enderby, Glacier, Hazelton, Lillooet, Nanaimo, New Hazelton, Newport, New Westminster, Prince George, End of Steel G.T.P. West, Prince Rupert, Smithers, Squamish, Telkwa, Vancouver, Vanderhoof, Vernon, Victoria.

You saw this advertisement in this magazine. Don't forget to say so when writing.

BABBITTS Buy Direct from the Manufacturers and Save Money

THE OWL METAL CO. LTD.
OWL BABBITT METAL
WINNIPEG
OWL BABBITT METAL For Thrashing Machines, Small Gas and Steam Engines.
 Cash with order price 75c per lb.
OWL TRACTION METAL For Gas and Steam Tractors will stand heavier work. Worth \$1.00.
 Cash with order price 85c per lb.
The Owl Metal Co., Ltd.
 Metallurgical Experts
 151 Notre Dame Ave. WINNIPEG

You saw this advertisement in this magazine. Don't forget to say so when writing.

CAST IRON WELDING

also CAST STEEL, BRONZE, MALLEABLE IRON, STEEL, COPPER AND ALUMINUM, under a positive guarantee.
 Do not hesitate to send us your broken cylinders, cylinder heads, connecting rods, crank cases, engine beds, bull pulleys, etc., and we will return them as good as new and stronger than ever at a great saving.
 We do not attempt to repair certain castings on which a saving cannot be made in which case we sell it for scrap and return the proceeds to the customer, which helps to pay the freight.
 Entrust the work to us, we have the oldest and largest Oxy-Acetylene welding works in the West.
 Inquiries cheerfully answered.
MANITOBA WELDING & MFG. CO.
 621 PRINCESS STREET WINNIPEG, MAN.
 Established in 1911.

You saw this advertisement in this magazine. Don't forget to say so when writing.

For the Holiday Season

For use in the home, for the entertainment of your friends, or as a gift



BUY IT BY THE CASE—PINTS OR QUARTS

E. L. Drewry, Ltd., Winnipeg

PATENTS TRADE MARKS AND DESIGNS
Write for booklet, circulars, terms, etc.
FETHERSTONHAUGH & CO.
FRED. B. FETHERSTONHAUGH, E. C. M. E.
GERALD S. ROXBURGH, E. A. Sc.
36-37 Canada Life Bldg WINNIPEG



\$1500 to \$5000 Per Year

have been made by hundreds of people operating the "American" Drilling Machines, 40 years' experience, 80 regular styles and sizes and the output of this world's largest manufacturer of this kind of machinery make

"AMERICAN" MACHINES STANDARD
Made in types for every kind of earth and rock drilling or mineral prospecting, equipped with any power, or operated with your traction engine. Our new 150 page Catalog Free.

THE AMERICAN WELL WORKS
General Office and Works:
AURORA
ILL., U.S.A.
Chicago Office:
First Nat. Bk. Bldg.

The Pump That Pumps
SPRAY PUMPS
Double-acting, L.H. Tank and Motor
PUMPS
Steve Laddens, Etc.
HAY TOOLS
of all kinds. Write for literature and prices.
Myers Stayson Flexible Door Hangers
with steel roller workings easy to push and to pull, cannot be thrown out of track—never to wear—strong. Write for descriptive circular and prices. Executive Agency given to eight party who will buy in quantity.
J. E. MYERS & CO.

Couldn't Best Pat.
The heroes of Ireland, England and Scotland were all three brought to court. Paddy charged with stealing a cart; the Englishman a horse, and the Scotchman a cow.
The Scotchman was questioned as to where he got the cow, and he said he had it since it was a calf.
The Englishman said that the horse was his since it was a foal.
When Paddy was questioned, he felt somewhat embarrassed, but after a while he spoke up boldly: "Shure, yer honor, I have that ould cart since it was a wheelbarrow."



The Real Thing.
The cub reporter saw a hearse start away from a house at the head of a funeral procession.
"Whose funeral?" he inquired of the corner storekeeper, who was standing near his door, gazing at the conveyances.
"Chor. Semmit," exclaimed the cub.
"John Smith!" exclaimed the cub. "You dont' mean to say John Smith is dead?"
"Vell, py golly," said the grocer, "vot you dink dey doing mit him—practising?"



Logical Tommy.
"Run upstairs, Tommy, and bring baby's nightgown," said Tommy's mother.
"Don't want to," said Tommy.
"Oh, Tommy! If you are not kind to your new little sister she'll put on her wings and fly back to heaven."
Tommy's reply was prompt and to the point:
"Well, let her put on her wings and fly upstairs for her nightgown!"



Wonders of Electricity.
Here is one that was told by Congressman Claude Weaver of Oklahoma the other night.
Some time ago a young farmer who had joined the army and gone to the Philippines sent a cablegram to his father. The day after the arrival of the message the father was speaking about it to a farmer friend.
"Great things is that telegraf, Josh," remarked the father. "Jes' think o' that message comin all them thousand miles!"
"Yes," was the hearty response of Josh "an' so thunderin' quick, too."
"Thunderin' quick!" exclaimed the father. "Well, I should say so! When I got that message the mucilage on the envelopp wasn't dry yet."



A Mine of Information
If you want to know more than a mortal should.
Of everything bad and everything good, About every one who lives in your town, From the chief executive all the way down.
Know all of this and "hold it in trust," Until you're so swelled you are likely to bust—
Just keep a postoffice.



What He Left
Residing in a little village is a lawyer who is famous for drawing wills, in which branch of business he has long enjoyed a monopoly of the country for miles around.
A few months since a wealthy man died. There was much speculation as to the value of the property, and the town gossip set about to find out the facts. He hunted up the lawyer, and after a few preliminary remarks about the deceased, he said rather bluntly:
"I suppose you made Brown's will?"
"Yes."
"Then you probably know how much he left. Would you mind telling me?"
"Not at all," the lawyer answered as he resumed his writing. "He left everything he had."

The Marlin Repeating Rifle
Model 1897
Shoots all .22 short, .22 long and .22 long-rifle cartridges; excellent for rabbits, squirrels, hawks, crows, foxes and all small game and all target work up to 200 yards.
Here's the best-made .22 rifle in the world!
It's a take-down, convenient to carry and clean. The tool steel working parts cannot wear out. Its Ivory Bead and Rocky Mountain sights are the best set ever furnished on any .22. Has lever action—like a big game rifle; has solid top and side ejection for safety and rapid accurate firing. Beautiful case-hardened finish and superb build and balance. Price, round barrel, \$14.50; octagon, \$16.00. Model 1892, similar, but not take-down, prices, \$12.15 up.
Learn more about all Marlin repeaters. Send 3 stamps postage for the 128-page Marlin catalog.
The Marlin Firearms Co.,
108 Willow St., New Haven, Conn.

National Trust Company, Ltd.
TORONTO, WINNIPEG, EDMONTON, MONTREAL, REGINA, SASKATOON
Capital and Reserve, \$3,000,000
The strain and worry of managing Estates will all be borne for you by this Company.
A PRIVATE Executor may die or become incapable of acting before the completion of the Trust. A Trust Company is PERMANENT and will survive the longest Trusts.
This Company's financial strength and expert staff ensure responsible and capable administration.
We act as Trustee, Executor, Administrator, Guardian, Liquidator, Assignee, Financial Agent
SAFE DEPOSIT VAULTS SAVINGS DEPARTMENT
D. H. COOPER, Manager, Winnipeg Branch, 323-325 Main Street.
You saw this advertisement in this magazine. Don't forget to say so when writing.

Eastern Canada and Home Visitors' EXCURSIONS
Daily during December. Liberal Stop-overs. Free Side-trips
En Route See Duluth, St. Paul, Minneapolis, Chicago, Detroit, London, Hamilton, Niagara Falls and Toronto
Tourist and Standard Sleepers, with electric lights in both upper and lower berths, daily between Edmonton, Saskatoon and Winnipeg. Dining car service equipment and roadbed excellent.
Tickets to Old Country at greatly reduced rates on sale November 7th to December 31st
Our Agents will be pleased to furnish any information desired.
W. J. QUINLAN
District Passenger Agent
Winnipeg, Man.
Travel via the **Best New Railway Ever Constructed**
You saw this advertisement in this magazine. Don't forget to say so when writing.

S.H. Henderson, Pres. E. H. D. wart, Vice-Pres. C. D. Kerr, Treasurer
The WAWANESA MUTUAL INSURANCE COMPANY
HEAD OFFICE: WAWANESA, MAN.
A. F. KEMPTON, Secretary-Manager
Amount of Insurance in force Dec. 31st, 1913 \$88,248,194.00
Assets over Liabilities 6663,467.96
THE NUMBER OF FARMERS INSURED, 31st. Dec. 1913, 25,696
The Largest Farmers Mutual Fire Insurance Company in Canada. Agents wanted in un-represented districts

Dr. Thomas' Eclectic Oil
Relieves all Pain in Man or Beast
25 Cent Bottles at all Dealers

You saw this advertisement in this magazine. Don't forget to say so when writing.



Conducted for the benefit of Dealers, Threshmen and Farmers who have anything to sell or exchange. Five cents a word for each insertion.

FREE FOR SIX MONTHS—My special offer to introduce my magazine "Investing For Profit." It is worth \$10 a copy to anyone who has been getting poorer while the rich, richer. It demonstrates the real meaning power of money and shows how anyone on a matter how poor, can acquire riches "Investing For Profit" is the only progressive financial journal published. It shows how \$100 goes to \$2,200. Write now and I'll send it six months free. H. L. Barber, 408-20 W. Jackson Blvd., Chicago.

FARMS WANTED. We have direct buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association 15 Palace Bldg., Minneapolis, Minn.

OXY-ACETYLENE WELDING—Save your cracked or broken castings from the scrap heap. We weld cylinders, crank shafts, gears, levers, etc., retain original form and strength at a small cost. Metal added to worn-out parts. All metals welded satisfactorily. The Manitoba Welding & Manufacturing Co., 62 1/2 Princess Street, Winnipeg.

FOR SALE
We have on hand at present a very full line of rebuilt and second-hand Engines and Separators, which we are offering at attractive prices. Write us fully what you are thinking of buying when we shall be pleased to tell you what we have and quote prices. All our rebuilt goods are sold under same guarantee as new ones and of course are carefully repaired and look exactly like new. If you write us at once we are sure to have the size you almost want!

SAWYER-MASSEY COMPANY, LIMITED, Winnipeg, Man.

- BARGAINS.**
- 1 30 H.P. double undermounted Avery engine, with Alberta and Saskatchewan Boiler. This engine has been repaired and fixed up in first class shape.
 - 1 30 H.P. undermounted Avery engine, with regular boiler, repaired and fixed up in first class shape—this would make a dandy thrashing engine.
 - 1 20-35 Avery gas engine—has been out two seasons and is in first class shape.
 - 1 20-35 Avery gas engine—has been out seven days in 1913, is practically as good as new.
 - 1 18 H.P. double undermounted Avery engine, coal burner, is in first class shape.
 - 1 3-ton Avery farm truck, has been repaired and over-hauled and is in first class shape.
 - 1 36 x 60 Avery separator, complete with feeder, sealer, wind stacker; has only been out 30 days. Has been repaired and repainted, looks like new.
 - 1 32 x 34 Avery separator, only been out 20 days, and is in first class shape.
 - 1 42 x 70 Avery separator, has run 50 days, has been repaired, repainted and over-hauled and is in first class shape.

If you are interested in second hand goods and none of the above suit you, let us hear from you, stating just what you want, and we feel sure we can fix you out all right. We feel sure we can fix you out alright.

CANADIAN AVERY COMPANY, LTD. Winnipeg and Regina.

BUYERS' ATTENTION!
THE GEORGE WRIGHT & SONS COMPANY LIMITED, BRANDON, MAN.

- ENGINES**
- 1—25 H.P. White tractors thoroughly rebuilt and in good shape. Each \$ 180.00
 - 1—16 H.P. American Advance tractor. \$ 200.00
 - 1—18 H.P. Minneapolis traction. \$ 400.00
 - 1—20 H.P. Brandon Cornell, Portable. \$ 400.00
 - 1—20 H.P. White traction. \$ 1200.00

- REPARATORS—Second Hand**
- 1—Aultman & Taylor, 28x50, all attachments. \$ 400.00
 - 1—40x2 Waterloo separator, all attachments. \$ 400.00
 - 1—30x50 Goddard separator, all attachments. \$ 300.00
 - 1—30x50 American Abell, all attachments. \$ 325.00
 - 1—36x50 Felicie separator, all attachments. \$ 300.00
 - 1—32x50 Great West separator, all attachments. \$ 200.00
 - 1—36x50 Great West separator, all attachments. \$ 200.00
 - 1—White Challenge separator, thoroughly rebuilt all attachments. Each \$ 900.00

Write us re new goods—We have the best.

HAVE FOR IMMEDIATE SALE a Rumely OilPull with threshing outfit and plow. All in first class condition, having only been used the second year for own work. Cash deal or on terms. Offers sub. E. V. P., Canadian Threshman and Farmer.

FOR SALE—Half section with 200 acres under cultivation, good frame buildings, windmill, telephone connection, fine neighborhood, four miles from Vegreville, Alberta, in the richest farming land in Alberta. Every acre of this land tillable. Will sell the half section or one quarter on liberal terms. An ideal home for anyone wishing to locate in Alberta. M. A. Redding, Box 246 Edmonton, Alberta.

FOR SALE—We have for sale a full line of second-hand rebuilt machinery, consisting of steam engines, gas engines and separators. These are being offered at good values. Should you be interested, write us giving particulars re size of rig that you may require, and we will gladly give full information.

J. I. CASE THRESHING MACHINERY CO., Regina, Saskatchewan, Canada.

- FOR SALE.**
- No. 15 Horse Case Simple Portable Engine 20540
 - 15 Horse Case Simple Portable Engine 15813
 - 15 Horse Compound Portable Engine. 13426
 - 18 Horse Simple Traction Waterloo ... 323
 - 16 Horse Portable Sawyer-Massey ... 8299
 - 20 Horse Portable Sawyer-Massey ... 1419
 - 20 Horse Simple Traction Sawyer-Massey ... 1116
 - 20 Horse Compound Traction Engine Case ... 7936
 - 20 Horse Simple Traction Engine, Case 17721
 - 20 Horse Simple Traction Engine, Case 16912
 - 32 Horse Simple Traction Engine, Case 99019

J. I. CASE THRESHING MACHINE COMPANY, Winnipeg, Canada.

WANTED to hear of good farm or unimproved land for sale. Send description and price. Northwestern Business Agency, Minneapolis, Minn.

HALL'S RED RIVER EMPLOYMENT OFFICE, 188 Logan Ave., East. Successors to old established Red River Employment Office. Farm hands, engineers, steam and gasoline plowmen and all other farm help. Phone Main 7298.

WANT TO BUY FARM WELL LOCATED—Give description and price. Owners only. Address, McClure, Box 754, Chicago, Ill.

I HAVE good general store in small but good town. Old-established business. Would like to exchange for farm in Western Canada. Andrew Peterson, Fostoria, Kansas.

6% MONEY 6% MONEY 6%
LOANS may be obtainable for any purpose on acceptable real estate security; liberal privileges; correspondence solicited. A. C. Agency Company, 758 Gas, Electric Bldg., Denver, Colo. 446 Pierce Bldg., St. Louis.

MEN AND WOMEN WANTED in all localities no matter how small the village to show samples to their friends and neighbors, position will pay \$20 weekly with a few hours work in spare time. This is a new co-operative plan of trading, for example: Redpath's best granulated sugar, 4 cents per pound; Christie's large boxes sodas for 15 cents; Comfort, Surprise or Sunlight soap, 8 bars for 25 cents. These are merely a few sample prices, everything sold at factory prices to the consumer, men making as high as \$50 weekly with our plan. No experience required as the prices do the work. Sample case with samples and supplies furnished free. Write to-day for your territory. The Consumers' Association, Windsor, Ontario.

CASH FOR YOUR FARM OR BUSINESS—I bring buyers and sellers together. No matter where located, if you want to buy, sell or exchange any kind of farm, business or machinery anywhere, at any price, write me. Established 1881. John B. Wright, successor to Frank P. Cleveland, 181 Adams Express Building, Chicago, Illinois.

WANTED—To hear of good farm or unimproved land for sale. Send description and price. Northwestern Business Agency, Minneapolis, Minn.

FOR SALE OR TRADE for land or stock, Rumely steam plow engine and Cockshutt plow, like new. Address, Caswell Bros., Gadsby, Alta.

CASH FOR YOUR FARM OR BUSINESS—I bring buyers and sellers together. No matter where located, if you want to buy, sell or exchange any kind of farm, business or machinery anywhere, at any price, write me. Established 1881. John B. Wright, successor to Frank P. Cleveland, 1078 Adams Express Building, Chicago, Illinois.

FOR SALE—Oil Tractor 15-30 H.P. Fairbanks-Morse and 6-turrow Moline gas complete. Good as new, snap price, E. Drury, 402 Lindsay Bldg., Winnipeg. Phone M1330.

FOR SALE OR TRADE—One 26 H.P. American Abell traction engine, one 40-62 Case Wood separator complete, all in good shape. All new belted with new drive belt. Two water tanks with new pump and hose. Will trade on a small gasoline outfit or

FOR SALE—One Verity engine, 12 plow, 14-inch, only used three weeks, cost \$920 will take \$600 cash. J. B. Pantel, Notre dame de Lourdes.

Canadian School of Tractioneering

AS YOU LEARN MORE YOU EARN MORE.

IF you want to gain first-hand knowledge of a Gas Engine (either stationary, portable or traction), an Automobile, an Auto-Truck, a Grain Separator, or even a Steam Engine, or if you already have had experience with any of these machines and wish to increase your knowledge, attend this school and study under a staff of experts.

We have secured the use of the Sawyer-Massey Co.'s repair shop at Winnipeg in which to hold our school. This shop is fully equipped with all tools and machinery necessary for repair work and is well heated and lighted.

Students will get actual practice in re-building and operating various types of machines. We will have a large number of machines on hand, including stationary, portable and traction engines of various types for the use of our students.

The course will be of a thoroughly practical nature, and, besides the actual shop work, lectures will be given daily by well known men who have a thorough practical and theoretical knowledge of the subjects dealt with. First course starts 1st December, second course on 4th January, and so on at intervals of three weeks. Write for full information to

A. C. CAMPBELL, Principal

Canadian School of Tractioneering

116 Higgins Avenue, WINNIPEG



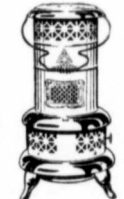
The House Without A Cold Spot

THE house that has a Perfection Smokeless Oil Heater needn't have a cold spot anywhere.

A Perfection is light and can be carried easily from room to room—anywhere

the extra heat is needed. For the "between seasons" of Fall and Spring the Perfection Smokeless Oil Heater gives just the heat you want.

PERFECTION SMOKELESS OIL HEATERS



Perfection heaters are solid, handsomely designed and smokeless and odorless. Look for the Triangle trademark.

Made in Canada

ROYALITE OIL is best for all uses

THE IMPERIAL OIL COMPANY, Limited
Winnipeg Calgary Regina Montreal Quebec Halifax
Edmonton Saskatoon Vancouver Toronto Ottawa

FARM LANDS FOR SALE—30 years to pay for a farm. We own 100,000 acres in Canada, Oregon, Florida, Texas. Which locality do you prefer? Hunter Land Company, Minneapolis, Minn.

TELEGRAPHY—Young men and women instructed and assisted to positions as Telegraph Operators. Write to Western School of Telegraphy and Railroading, 1 McLean Block, 531 Main St., Winnipeg.

After the Season is Over

Let Owners and Users of Huber Engines and Threshers tell you what they know. Let their testimony be your guide.

Here are a few of the things they say :

The Huber Thresher Leads

"My Huber machine has been in the lead all the season. Am still threshing, while all other machines in this part of the country are in the sheds."

"We have made a better average threshing than any other. Our Huber is still at work, while other machines have been pulled in for some time."

"Have had ten years' experience with Huber machines, and they can't be beat."

"We have had several different makes of machines to thresh for us, but there was none that beat the Huber."

"I am satisfied that the Huber is far ahead of any other machine that has ever been in this country."

"I cannot say enough for the Huber thresher. It has no equal."

"Our customers say it is the best machine that ever did work for them. The Huber takes the lead for fast and clean threshing."

It is the Best Cleaner

"Customers say they never saw such a clean job of threshing done before."

"Farmers that I have threshed for say my Huber machine cleans the grain better than any other thresher in this community."

"It cleans the grain perfectly, and threshes fast."

"There is nothing like the Huber, for it doesn't give any bother, and cleans the grain so nicely."

"Can recommend the Huber as the best grain cleaner and saver I ever saw."

"After thirty years' use of Huber machines, I find they are fast threshers, good cleaners, and grain savers."

"Cleans the best of any machine I ever saw."

"All said it was the cleanest job of threshing they ever had done."

It Saves the Grain

"The Huber is second to none. It is a light runner, gives least trouble, and saves the wheat."

"It runs smooth, does better than other machines at cleaning, and my customers say it saves the grain."

"The farmer gets all his grain in the bags when it is threshed with a Huber."

"I find the Huber separator best of all. It is the best wheat saver and the lightest runner."

"The Huber is the best grain saver there is, and will handle more grain than any machine I ever saw."

It Gives Long Service

"I have a Huber separator bought for the season of 1895. With very little repairing, it will be good for its twentieth season this year."

"My Huber separator gave me eleven years splendid service, and is good for eleven years more, though I ran it hard."

"Our Huber separator has run twelve or thirteen years. It suits us and satisfies our customers."

"My Huber separator has been out ten years, and is as good as new."

"Have run my Huber thresher fifteen seasons. It does the best work of any machine here."

"Have threshed nine seasons with my Huber, and it does as good work as ever."

The Huber Engine is Superior, because:

"Furnishes more power than any engine I ever saw for the rating."

"For pulling in sand, it can't be beat. It is an easy steamer and a fuel saver."

"It is the easiest to fire; uses the least wood and water of any engine of its rating I ever saw."

"Have run my Huber engine twelve years. Have the first set of flues in it, and no hing done to them yet. It is a good puller in the belt and on the road."

"Have used Huber engines six years. Never put it to anything but what it gave perfect satisfaction, with less fuel and water than any other engine I ever saw."

"Have used Contractor engine for four years. It seems to have all the staying qualities an engine could have."

"Can steam it up the quickest, and run after it is steamed on the least coal of any engine I ever saw."

"It continues to do just as efficient work year after year. The reason is that every part is honestly built."

"We run our engine seven years, and never had a leaky flue."

"They are easily steamed and easily fired, saving both on fuel and water. This is the advantage of a return flue boiler."

"It will produce one-fourth more power with same fuel. It is more convenient to handle, and will turn in smaller space."

"We have some rough country, and the Huber sure goes up the hills. It is easy on fuel and water."

"Would have nothing but a Huber return flue boiler. It is the easiest cleaned of any on the market."

"Engine is well built, very slick on the governor, holding a very steady motion on the separator. It is a number one hill climber."

"I run the sixteen horse Huber engine thirteen years, and never had a leaky flue."

"It has a gearing that cannot be outclassed for wear. The boiler has not had one leak yet."

"It is a fuel saver, with plenty of power and plenty of speed."

"I can turn around in less time and on less ground than with any other engine. I consider the Huber the safest boiler there is."

The Gas and Oil Tractor

"It is a good puller in belt or traction, the handiest engine a man can have on his farm."

"Our tractor climbs over the hills without trouble."

"My 20-40 tractor is one of the handiest engines to operate. It is also economical in use of fuel."

"The 20-40 tractor is giving great service hauling loads. On some of the highest hills, some of them a mile long, the engine walked right up without a s.o.p. It is easy to handle, quick to start."

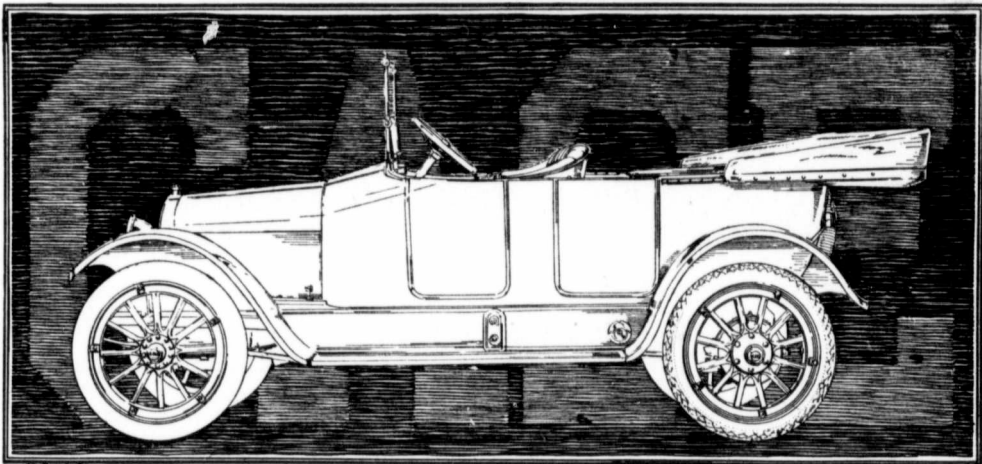
"The 30-60 tractor is the most satisfactory piece of machinery I ever owned. It has plenty of power, and runs steady."

"Tractor has not given us any trouble. It will always go when you want it to."

This is unprejudiced testimony from men who know, because they have tried out the machinery. What the Huber has done for them, it will do for you if you give it a trial. In investing in a power outfit or threshing machine, let the experience of these men be your guide. There's pleasure and profit in farming and threshing the Huber way.

THE HUBER MANUFACTURING CO.

Logan and Arlington, WINNIPEG, MANITOBA.



The NAME BEHIND the CAR

And What it Means to the Man Who Reasons

Ability and Responsibility

The known ability of the maker comes before everything else. Because, in your car, the "hidden values" rest solely upon his ability to put them there. Then upon his reputation for putting them there. That is what the "The Name Behind the Car" means to the man who reasons.

Sound business reasoning guides the men who are buying CASE cars. They discriminate between popularity that is meteoric and success that is merited—won through the experience of 72 years of manufacturing and of selling throughout the markets of the world.

These cautious buyers know that CASE behind the car stands for Supreme Achievement in the car.

Values Seen and Unseen

Note the CASE Specifications—their character—their completeness—the splendid features of which the costliest cars for next year boast, as you know. These values all can see.

But by *unseen values* the Case Company means, for example, the hair-line exactness of machined parts; laboratory determination of the limits of alloy steels.

In such, lie the *vitals* of your car that determine the wisdom of your investment.

This company safeguards your interest in these particulars by habit, born of proven service and a reputation for products of highest excellence.

Price Fairly Judged

The intelligent way to judge the price of a car is to divide that price by the number of years of service of that car. On this basis the cost to you of a CASE car is astoundingly low.

This is largely due to the unique advantage of this company which enables us to make a substantial saving after CASE cars are built!

For we have 79 branches, 600 travelers and 9000 dealers in United States, Canada, South America, Europe, Asia, Africa and the Philippine Islands, handling our other products. Therefore, the prices of the CASE cars do not include the usual heavy sales expense borne by other cars.

Thus we save where others must spend. And so we spend where others must save. Result: Better materials, better workmanship, better equipment, better price.

CASE "25" \$1350

5% Discount if Cash

BODY:

Distinctive Streamline, with concealed hardware. Automatic spark control.

Upholstering—Genuine leather, high-grade curled hair.

Cushion Springs—Strong, deep and comfortable.

Full-size door openings.

Actual five-passenger capacity. Foot and robe rails. Protective covering on back of front seat.

One-Man mohair top with quick-adjustable side curtains, folded in top. Top cover enclosing bows.

Windshield, rain vision, ventilating.

15-gallon cowl gasoline tank, with gauge; tank easily removed without disturbing body.

CHASSIS:

Motor—Built in our own shops; T-head, 3 $\frac{1}{4}$ inch x 4 $\frac{1}{2}$ inch.

Starting and Lighting—Westinghouse six-volt system.

Ignition—Westinghouse high tension, separate unit. Automatic spark control. Carburetion—Hot air device; dash control.

Spark plugs located in centers of high compression cylinders.

Highest grade Wasson piston rings.

Crank shaft and connecting rod bearings, bronze backed, lined with very highest grade babbit.

Crank shafts, connecting rods and cam shafts of Case special formula steels forged and heat treated in our own shops.

Valves—Solid 3 $\frac{1}{2}$ per cent nickel steel.

Lubrication—Splash system, constant level maintained by positive driven plunger pump in connection with non-leaking circulation indicator on dash.

Radiator—New design core construction, of unusual efficiency and strength.

Clutch—Multiple disc, best high-friction non-burnable facings on steel.

Spicer Universal Joint.

Transmission—Gears and shafts of special alloy steel, Timken bearings throughout.

Axles—Front, I-beam section, steering knuckles and arms all forged and heat-treated in Case shops from Chrome nickel steels, Timken bearings.

Rear—Advanced design, floating; pressed steel housing; large bearings and driving gears; distinctive Case hubs and caps.

Brakes—Unusually large, 14-inch drum, 2 $\frac{1}{2}$ -inch face.

Frame—Very strong construction, with large factor of safety. Clean running boards of pressed steel, linoleum covered, aluminum bound.

Spring Suspension—Long, easy riding, floating cantilever type, phosphor bronze bushings, all main plates special analysis alloy steel.

Pressed Steel Crown Fenders.

Wheelbase—115 $\frac{1}{2}$ inches.

Drive—Left-hand, center control.

Large 18-inch corrugated steering wheel; horn button in center.

Headlights, double bulb; tail light, number lighting, with Chicago switch; dash light; work light on 10-foot cord. All single wire system.

Tires—34-inch x 4-inch, non-skid on rear wheels; demountable rims.

Color—Dark Brewster green.

EQUIPMENT:

Extra Casing and Tube on Rim, with Cover.

Weed Tire Chains.

Eight-day Clock.

Speedometer.

Electric Horn.

Jack, Tire Pump, Repair Kit and Usual Tools.

Choice Openings for Aggressive Dealers

We have decided to extend agencies in certain territories for the new Case car to large and small dealers who have heretofore had no connection with our wide-spread sales organization. This presents a rare opportunity to men alive to the growing demand for this real VALUE CAR. All applications and inquiries are handled in the order of arrival. The priority of a day may be vital to you. Write or wire us before it is too late.



CASE

The Car With the Famous Engine

CASE "25" . . . \$1350
CASE "35" . . . \$1600
CASE "40" . . . \$1800

5% Discount if Cash. F.O.B. Factory
CASE cars?

J. I. Case T. M. Company, Inc.

741-791 State St., RACINE, WIS.

Canadian Branches—Toronto, Winnipeg, Saskatoon, Regina and Calgary.

