## Thlassev's sillustrated - <br> (PUBLISHED MONTHLY.)

## Seplember Number

New Series, Vol. 5, No. 9.
Toronto, September, 1893.


## MASSEYS ILLUSTRATED.

 Massey-Fharris Shoe Drill will, however, cut through such soil and cause the sides of the hard steel shie plates to clean perfectly. Thus it is quite possible to sow on wet land with one of our Shoe Drills when a Hoe Drill could not be made to work. It is possible, also, with the new MasseyHarris Shoe Drill to sow seed at a more aniform depth than with any other machine yot invented. Not only may the seed he sown defjer than with any other drill, but it is also possible to sow nesrar the surface, and, at the same time, to cover it perfectly - a great advantage when puthing in certrin kinds of seed. The seed grain being sown in the track or cut made by the shoe, is planted in very even, straight rows ; hence the rows san be closer together than is otherwise admissible. The hoes on the MasseyHarris Shot Drill ares six inches apart. Where the soil is well cultivated, the earth falling back iri the track of the shoes will automatically cover the seed, but is an additionai provision a length of chain is attached to each runner, which corrs the sied perfectly, no matter what the nature of the soil. Experiencehas tatight, too, that the cent inade by the shoe presses or packs the eartin cach side of the cut, so that when the seed is coverel in, inigh winds will not uncover it, as is the case when sown by other nethods,-a diti-


This khows the acton of the taver. Shateri portions of cut showe
 iever rud parts when shens are lifted for transportation

Solid Steel Frame.-A most important feature in the conatre tion of a grain drill is its frame work, which is sabject more than a other part of the machine to severe and sudden strnin. We have, aff carefully experimenting and thoroughly testing the relative merits many styles of frames, adopted for the Massey-Harris Shoe Drilla frame made frum a single and continuous bar of high grale angle steel, which possesses the requis to strength and elasticity necessary to secure a proper foundation upon which to suppert the seed hopper, attach the draw-bars, shot lifting levers, etc. This frame is exat ly the same as that ased on the Masse: Harris Cultivators and Soctional Seeders, There are no joints in the frame, and thero is no tendemcy whatever to twist. It will successfully resist the most sudden shork No doubt this solid steel frame is the stronsest, lightest and most attractive in appearance yet produced.

The Shoes or Runners.-Perhals no graater improvement has been malfo than in the shoes or runners, and in the p sent general arrangement and perfect ada! ation to the varying conditions of the sel The machine being absolutely under the control of the operator, any desired depth ". sowing may be.obtained.

Controlling Lever--This is mc conveniently located, aud by it a very liy pressure or an exceedingly strong one may be applied. This name lev when thrown in the opposite direction, will lift the runners up from $t$. ground, ready for trausportation.

The Pressure.-This can, as statel above, be made as light heavy as dosired; does not prevert the shoes or runn from following the unevenness of the ground surface a. readily passing over obstructions which thay be encou tored. Eich ranner acts ind idependently. By our meth d there is greater flexibility than in any other maching $y$ t invented:

The Feed Runs or Distributors are tie same as used oii the Massoy-Harris Sectional Seede; :

Rubter Conductors. - These afe extritlong al id will never stop up when working on solt Jaiad, ae $t$ : $\theta$ ondeare not cut off square bution the allant, which resul:s in other advartapos also These spocial rubiber, tuit : are used ont hall the Sbeders and Drilile we yato.

Whiffletrees complete are gint out with es in Shoo Drin.

## MASSEY'S 莯ILLUSTRATED.

## SPECIAL WORLD'S FAIR SUPPLEMENT.

thSSEY-HARRIS CO'S (Ltd.) EXHIBIT AT THE WORLD'S FAIR.



As the visitor enters the main entrance of he magnificent Agricultural Palace he finds fimelf in a handsomely finisherl rotunda, dint is arched by the leautiful dome of te building, the interior being artistically resod. Passing from the rotunda along the mini aisle the admirable produce exhibits of le rarious States and foreign countries, claorately and tastefully armarell, are in full fist. Following the same aisle across the miding, he enters the Implement Annex which is really a part of the Agricultural Palace) and immedately on the right hand is he large and elegrant cxhibit of MasserTanris Co., Ittol.
The space occupied by this Company is cenrally located, and in plain view from all parts the Implement Annex. Many a Canadian, I coming to this splendid exhibit, has exreused himself as being highly pleaser at the narnificent display made by the M.sisiswfarikis people, and not only Canadians, but finied States and foreign visitors, alike speak if in the lighest praise-one and all procouncing it the finest and most complete exilit of farm machinery at the Fair.
Not alone has the beauty and finish of the


magnificent entraxce and dome of the agricultirat, palace.
exhibit attracted attention, but the machines and implements themselves have received universal praise for their simplicity and excellent mechanical construction.

The court containing the Company's exhibit includes an area of nearly 1 ,onn syuare feet, and despite its extent is very fully occupied, their display embatacing a full line of acrricultural



 machines and implements-in fact. they are the only single concern showing a completeline of farm marhines.
The In,mimian Illusistatral. thas deseribes the exhibit of Mas:m-HanRls (o.. Lht.:
This great form hmplemem Company ocrupies the largest space in the Servicultural Buileing allothet to any one contern. their exhith comprisine at romphete lime of agricultumal intplements. all being fally in kerping with ther wat cuterprise and busimes susabing which hate chamatorizel this ormaization. and which have opened up chanmels ol arade in all parts of the worlh. A latwe and hamdsome British chsign surmomts the aritithit. amit heas in later white letcesthe signiticant words: " Laterst Mikers under the britush
 Flay." An aryay of mpwarla of her forcima amb colonial hase mathate fom this central bamore and there are intembed to indicate that the Maser-Jarvis Co to husiness in each country so repesented ly its pennant. Probably there is no other firm in the word that can inake a similar boast.
In the centre of the court stands a handsome office made of native Cumadian wood. The panels below are artistically filled in with specimens of the various wools and also iron and steel parts which enter into the construction of the machine, including speecimens of castings. steel forgings. knives and knife sections, which are made by the Company from raw materials. The plate glass windows are richly draped and sumbounting the corniess of the structure are gilded Reaper finger bars. Surrounding this office is arranged the Companys large exhihit of sixty or more implements on a sapmerthoor. the court boing enclosed by a handsome nieked railing. The implements atre of much beatut: and design, and are very richly linished. Thimachines atractiog special allention are the Massey-Harris Wide-Open Binder. 'loronts Mower, Brant ford Nower, Massiry Hamis coutivator: Shatps Hay Rake-all of wheh are elegrantly plated and beautifully finished. The wood entering into the construction of these machines is all native Canadiam, and heing finely polished, attracts much attontion. The other implements are all handsomely painted in the same colors which they are usually painted for sale. Jand of the machines are shown in full motion.

THE Fisherhes bithonc.


VIBW in the pakk dooking towards the great manufactumbrs bullding.

Another feature of the exhibit is a large lount case containing the many trophies and mothly won by the Company at field trials in variont parts of the world.
Visitors at the stand receive the most "rout trous attention, and a large number of confort able chairs have been provided for their con ceni ence. Further, writing materials are placenta the disposal of callers, and many Canallinn avail themselves of the opportmity of has rill their mat addressed in care of the Com rant (Section EI 3, Lpricultural Amex.) (ana rlians are cordially invited to male thems. Ne at home at the Company's stand, which is con veniently located and a desirable place to hala apointments, de. A Visitors' Register is lant
In addition to the implements made by the Company, they also display on their staml handsome Thresher and Engine marle by, raw yer and Lassey (Jo., Fimiltion. Many patiso the Engine are silver-plated and some of then finished in polished luass, while the Separato has sides of highly linished bireh with pands, white wood. one side being mamelled will bevelled plate ghass, and the interior illumimat ed with incandescent electric, lights, showiut all the working pats which are in full motion amel rum almost as noiselessly as a wateh.
The Company also show a fall line of I'low made by the Verity Plow Co., Ltl., of Pram: ford.
This very extensive and complote exhili made by Massey-Harris (iv -as one can easily under stand.-is attracting mud attention, especially foon American and Europan exhibitors and experts. B its means Camadit is leinf well arvertised and in way that is sure to lealdo good results.

Over h. 1 (nt) mathines :ut implements were prodnce by Massey - Harkis (in 1stel, for the season of wet A large proportion of the :mmual output goes to lif reisen comntries - at trat which is continually on 1 l increase, and which canno but be of erreat value to tu Dominion. Most of the mi terial used by this compan are home products.

## WORLD'S FAIR SUPPLEMENT-MASSEY'S ILLUSTRATED.

## HoW I MADE MY PICTURES AT THE WORLD'S FAIR.

BW, b, II, massis.
('ue lay last summer while out in the comI was walking along a small village street vil my camera in hand ready to make an expo: are, when a small boy came rumning up yug, "Mister, give us a tme on that, plasc." h: ve had some amusinur experiences while out fince making, lut never before had I been ralited with caurving about a concertina. for bish my imocent photographic: instrument a- cridently mistaken.
However, the World's l'air camera letectives. whom there are scveal stationed at ever,
out the exhibitor's consent, and worst of all, no $\because$ tripol" or stand cari be used. This last restriction confines the amateur to the use of what is known ts the "hand" camera, which practically means that what photographs he does take will be "snap" shots-that is, mate in-stantineoush-for it is not possible to hold a camera sulficiently stealy to make " time" exposures. True, one can occasionally find a railing, a chair: or a box to rest the camera upon for the purpose of focusing with greater care and making a longer exposure, but opportunities of this kind are rare, and seldom admit of taking a picture from the most desirable point of view. "Instantaneous" or "snap" shot exposines require the strongest light, hence the photographer who visits the fair is really limited to out-of-door work except in a few in-




stances, as the interiors of the buildings are not light enough for "snap" shots. Therefore. as the best photographs camot, be produced without the use of a tripod to admit of accurate forusing, and further, as explained, it being possible to phorograuh only such objects as are in the strongest light without wiving lengthencol expasmes, it will he seen that the amatemr Whotographer at he Worde's Fair is jretty badIy handicappeel.

All these restrictions are male by the Pxposition anlhorities to protect a "concession." This concession is an cxelusive right to make and sell pictures in and alont the Exhibition gromds and lonidings, which concession has been soll for a large sum of money. At first it was detormined to shat out amaterus altogether and allow no artist within the gates except the ollicial photorraphers. Such an indignation was a wakned, however, from one end of the Uniterl Sitates to the other that the restrieted mivileges mentionel , hove were finally granted. lut were nevertheless so unsatisfactory that the war was waged further, and other privileges

mance, are not so casily deceived : and though mern cameras scancely look like photownphic fouments at all it is next to imposible to get rumg the gate with any kind of a camera itlout being stopped, and many a fellow hats I to onen his box of lmen to prove that was not a camera. I had heard that the wof the amatem photographer at the Worlds: i: was hard, and that he was not hedd in tery thestem. This I reali\%ed to be a face all too in. Of course an enthusiastic: anateur, such I must confess I am, would have no more burght of going to the World's l'air without a melra than he would think of stating off illout a reasonably well-filled purse. Therere the morning after my arrival in Chictigo e 'atter part of May last-it being a delightly cicar and bright day-fomm me at the old's Columbian Exhinition gates with a n-ra " lomed" and ready for business.
allecely hat d passed the thonstile when tro 0 an noticiug the black rase in my hambat - suspecting it to be a camema- demanded know if it were. On my answering in the rative a fec of se. (m was ordered to be paid. Fee entitling me to the use of the camera whe day, and that, too, mader ripid restricin. Amongst other things no camera is alrin which takes a view over $1 \times$ inches thirlh was the size of the instrument I had the me). No pictmes can be taken in the Art Allyy, and none of individual exhibits with.

the candidin payhion on the lafe fhont.
were wranted, and still further modilications: are likely to be made. Meantime, however, the cameri: : fiends" have had to make the best of the sitnation.
Most amatems are more interested in photographing the handsome exteriors of the buildEnes and the pretty bits of landscape sturounding them, than they are the interions. While they must forepo the mucle desired opportunity of using a regular viow camera with a tripod, it is nerertholess quite jossible to oltain passable pictures with a hand camera which will constitute most interesting sonvenirs. The haildings beine constructed lergoly of the wonderful white "staff" very radily admits of making instantaneous exposures. Having
longed to theni. The poor much-used "permit" (which I at last tied to the carnera handle that, il possible, all the world might know I was not a thied and a robber.) had to be proluced no less than cight or ten times that day, if not more. Sometimes a guad who challenged my right to be making photographs would walk away as though really disappointed at heing unable to exercise the full extent of his authori-ty-that is, to make an arrest.

Any person who manages to smurgle in a camera without paying the regular fee is destined to be " run in," and oven some dignitarios and newspaper correspondents who have been given jermits (not on the usual forms) granted possibly by letter from the birector-fienemal.


VAFA IS MNOMANOE,
course, but there are always some special pictures or particular points of view which we camot obtain, and which we must make for ourselves; and further, in the very act of taking a photograph of a view we study it :mil lecome the more interested in its preservation.
By fir the most interesting feature of the Wordd's lair is the buildings themselves :und their charming surroundings. I do not miata to under-cstimate the magnificent exhilits, which in all of the departments I fully belinve have never lefore beon excelled (and I hate scen many of the great exhibitions of recrint years) ; but the admirable grouping of the splendid structures in which the exhibits are placed and the beauty of the park, surpass anf: thing [ have ever been privileged to sec. is to the ?uildings, one hears so much of their enormous size (which is all quite truc) that they little think of them as great works of ant. which they really are. They are just as ntistic as they are big, and must be seen :mad studied to be appreciated. These marnifiremb white buildings have been grouped with the greatest care, and with the surrounding land scape-which is' like a fairyland, leautilied with artificial lakes and cinals, the lated spanned here and there with handsome white bridges-combine to make up a veritable para dise. I was simply charmed with the Exhibit tion Park, and found my greatest pleasure in wandering about the buildings and studying the beautiful vistas from various points view. Jnder the varying conditions of sur shine and shadow, there semed to be an un ending benuty in this marvellous creation o man.
Naturally enough, such a place would deligh the anateur photographer's heart, and it was with the hope of preserving some of they charming views as souvenirs, that I used mil camera while there.

While my pictures are but mengre represen tations of the beauty of the original, they mod perhaps convey an idea at lenst. Most of $t$ views which accompany this article, and whic
therefore, obtamed my "pormit" and signed the pledere of obrdience to the rules. I set out to wet mes two dollars worth of views. Having mate one expmisure, while formsing for the secome 1 was startled by a tap on the shoulder and a miformed Golminbian enard demamded:-"Is that a camcera, sir? Show rour pemit $\because$ " $A$ little surmised I problued the special pass. which being satisfactory we parted compans. A litale later I started across the Art (iallery. ats it was the most convenicut route to the point I wished to mad. When but a short distance inside the entrimere a ward very jolitely offered me freestorade for me instimment, I shoved the permit. "That don"t matter." said he, "No camera allowed here moder ame ciremmstances" (of which I was not aware no to this time.) An explanation that I just merely wanted to pass throngh the buikding did not satisfy him, but while the arcument was in jrogress we had roten hald way across, so lie concluded it was about as woll to let mo go to the opposite entrance as to make me return to the one I cano in at. A few vicurs in the vicinity: of the State and foreign buihlings were then taken without interruption. Soon, however. mother gratd, some distance off, espied me in the act of gettimg the German bridilngs on the focusing mlass. As he harried to me in apparent good nature theld up the invaluable permit and shouted to him to slamil still and have his pieture taken. It worked like macric--the smile depieted in that comotenance would have cured a bad case of dyspepsia. His features, thourh, assumed normal condition when he learmed that his order for one would have to be filled from Toronto and that the piecure would not be finished (devoloped) for some weoks.

The Columbian Guards are for the most part a decent lot of youner fellows-r gite unsophisticated. and many of then from the hack comety districts-who have heen clad in gat uniforms and endowed with sufficiont authority to make them feol-some of them, at least-as though a good deal of the Wordes l'air be-



or even the president himself, have been given at free ride in a patrol wagon,-all for the dreadful erime of taking a few photosraphsi at the World's l'air.
such are some of the amoyances the poor allicted amateur photomrapher has to put up witl at the World's lenir.
But if he can only succed in capturing some of the humilreds of fascinating scenes which win his admimation he will foel repaid for all his trouble. Photograplis cam be purchased, of
have been reproduced by the photogral process, were taken from a rondola or an thic launch sroing at full speed. It is nee ll to bay that umder these circumstimes on to work pretty dextcrously and wateh closoly to gret the pieture correctly locat the film or plate. The fact that this can arcomplished even with a monsure of sur indicates the wonderful strides in adviti which the photographic art has made in rec years.

# fttassev's fllustrated- <br> (PUBIMSEED MONTEILY. 

# A Journal of News and Literatore for Roval Homes 

New Series.]
TORONTO, CANADA, SEPTEMBER, 1893.
[Vol. 5, No. 9.

# From the Youth's Companion. <br> <br> LOST IN PATAGONIA. 

 <br> <br> LOST IN PATAGONIA.}

## In Four Parts.-Part I.

UST ninety years ago this 26 th day of Sep-tember,-as I see from the yellow old logbook lying open before me, and from which the facts of this story are taken, --the brig Xerxes sailed from Boston, bound for what was then spoken of as the Northwest Coast, or Northwest America, on a trading voyage.
That was by no means an uncommon "venture" on the part of Boston and other New England traders in those days. Vessels freighted with cloths, hatchets, knives, rum, and a great variety of cheap trinkets, were despatched to these then little known coasts to traffic with the Indian tribes.
In exchange for the goods taken out, the traders got fine furs and many other things of value.
A. fortune was sometimes realized by a single successful voyage, for the Indians then knew little of the actual commercial value of furs, and New Encland goods were a novelty for which they willingly paid dear.
On the other hand, many a good ship with her crew was lost; either captured by the savages, or wrecked on these then unchartered shores. It was a long and a hazardous voyage, of two years'duration at Dest, for Cape $\mathrm{H} \cdot \mathrm{rn}$ had to be doubled by all these adventurous traders. i vessel sailing from Boston for Nootlia Sound, or Queen Charlotte's Island, might not be heard from again until she dropped anchor in Boston Bay-uriless she chanced to fall in with sume similar trader homeward bound. Captain, mate, supercargo, and sailors said good-bje to their home friends for two years or more, and chances were about even that it was $a$ sinal farewell. But stout hearts were plenty, and every year several of these brave barks set sail, allured by the ever golden dream of profit.

## AN OLD LOG-BOOK.

From this old $\log$ book of the Xerxes I find that the captain's uame was Elisha Dustin, of Salem, Mass. The record is mainly in the captain's hand-writing ; he wrote a round though rather painful hand, and the ink hasstood well. I would give something to know how that in!s vas made. He wrote with a goose-quill pen, which sometimes gave him trouble ; he wasnot a thoroughly accurate speller. Those troublesome terminations - "tion," "sion," and "cion"-were not quise at his command, and sometimes, in bad weather perhaps, he indulged in the more phonetic "s.hun" which I for one deem equally as good and would be glad to see universally adopted. Buthe was a pretty good grammarian, and evidently a careful recorder of events.
The mate's name was Valorous Hobbs. They used to pronounce that name with the accent on the second syllable, $l o$, and this syllable was the short, or nickname, for it. The supercargo's name was Lyman Stowell, of Newburyport; and there was another young man of some standing on board, though I cannot ascertain exactly in what capacity he shipped, named Pleemon (thus the captain spells it)-Pleemon

Frost; in all save this one place, however, he alludes to him as "Pleom." Tho leading sailors were named William Lovewell, Columbus Lovewell, Arumah Brown, Ebenezer Hartly, Caspar and Columbus Judkins, a Spaniard whom the captain spells Fredreego Costello ; in all, a crew of twenty-seven, mostly New Englanders from the eastern counties of Massachusetts.
Running over the old $\log$, I find that they had a good voyage to the Cape, experienced some hard weather there, saw ice, were afterwards in fear of Spanish privateers and pirates; that they gave the coast of Peru a wide range; that they had some sickness, like scurvy, on board, from subsisting so long on salted stores; that they were at Nootlia Sound, on the northwest coast, in July the following year, also in September of that year ; that they had an encounter with the Indians there, who seemed to have been then both numerous and warlike;
that the trouble was settled, and the traffic was good ; that young Stowell, the supercargo, one day traded a hatchet for a solid nugget of gold, weighing five ounces; that Lo Hobbs, the mate, fell into a dispute one day with Tolaboona, a chief, and knocked him down with his fist, and had to flee on board for his life, but that they shook hands again in the afternoon ; that rum and the small-pox had already made havoc among the Indians, and that the traders brought them both these agents of destruction ; that the Indians fought with cheetooths, a tremendously heary club, or battle-axe; that ore of these weighed twenty-nine pounds and four ounces, and that Tomeesa, another chief, could launch it a distance of fifty-six paces at a single cast.
The Xerxes finally sailed from Nootka in November, but touclied at points near the great River Columbia, also on the coast of California, then Spanish territory. The traders had an en-

counter wi.h a "frec-bootor" off the coast of Mexico, and beat off the pirate, or privateer, whichever it wis, with thie bris's carronades.
disabled.
I further learned that in March they were homevard bound, and in the satitude of Chonos Archipelago, west of Patigonia, approaching Cape Hoin again; and that on the night of the 14 th of the month, the weather being very thick and a gale of wind blowing, the brig came in violent collision with an iceberg, or at any rate with a large nass of floating ice, broke her bowsprit and foremast, and crushed a dangerous hole in her hull, "on the bends forward;" that they believed themselves in great danger, and were obliged to use the pumps; and that next morning, the lofty headland of the Tres Montes being in sight. low down on the eastern board, the captain, after consultation with James Codman, the carpenter, and the Spaniard, Costello, determined to put into the Bight of Chiloe, and there, if possible, careen and repair the ship somewhat, before attempting the passage of the creaded Horn
The voyage up to this point so closely resembles scores of others of chose times and other times, that. I should have found no materials for a story in it but for an adventure of a party from the brig's crew, while they lay careening and repairing in a bay of the Gulf of Chiloe, or the Gulf of Ancud, as it is variously called.
No very clear description of this bay, where the Ierxes putin, is given; but $I$ judge from certain words that it was in the extireme northwestern part of the Chiloe Gulf, in latitude $43^{\circ}$ $20^{\prime}$, lonritude $7 \mathfrak{F}^{\circ}: 30^{\prime}$, or not far from that position. By reference to a map, it will be seen that the lofty range of tho Andes Mountains here closely approaches the coast, but has dwindled to insignificant though rocky hills, with a few scattered peaks. two of which are volcanic. The Pacific side of the mountains, in this latitude, is well wooded and a pleasant region; but from the top of the range, which is here not more than fifteen miles from the coast, the country falls off eastward in dreary plains, the desolate campos of Patagonia.
There was then a tribe of Indian:, or natives, inhabiting Chiloe and the neighboring islands of the bight, which the captain speaks of as Chiloese; but with them the Xerixes had no dealings. The brig was laid up in a little landlocked cove, and timbe: on shore was felled, hewn and brought off. A part of the crew were at work meanwhile scriping the barnacles from the sides and bottom of the vessel.
samblling apples.
Early the shird morning atter lying up here, Chun Lovewell, one of the sailors from Haverhill, Mass., created some merriment by singing out, "Mates, I can sinell apples!" and he gave weveral deep sniffs in to the fresh morning breeze off shore.
"Apples, you young lubber!" exclaimed the a arpenter contemptnously. "That's a fine nose of yourn. Can't you smell a good old Massachusetts pumptin while you're about it?"
"But I can smell apples!" roared Clum. "I "can smell 'em plain and good!"
"Can't you smell a school of mackarel just cutside Plymouth Bar? Seems to me I can?" exclaimed Lyman Stowell, the supercargo, laughing. "Captain Dustin, look a' here"these trading crews from early New England were often on easy terms of familiarity with their officers. "Here's a lad that smells apples off shore! What think o' that for a nose?"
The captain laughed, and said, "There's not an apple-tres within fifteen thousand miles of us-more's the pity. Why, boy, a good August pippin or a summer-sweeting wouldn't go so bad, would it, now? Or a mess of fresh applesass, to cut the grease off this salt meat a little."
"Ay, By, cuptain!" responded a chorus of voices.
"Well, men, patience, and please God, we will see Boston Light again this night ivve months hence."
That day Indians showed themselves on the shore ; they were not Chiloese, but a tribe call-
ad Picunchees, inhabiting the main land, and having their haunts in thic passes of the mountains. They were not savages exactly, having been in sontact with the Jesuits for many years. In their talk they made use of many Spanish words, and the sailor Costello could understand somewhat of their conversation. They were friendly to the whites, and gave them beef. They wore loose ponchos, mado of skins, and had long lances with iron heads, which they had obtained from the whites.
But their most formidable weapon was a huge slur shot, which they both threw and used for striking at close quarters. It consisted of a round, very heavy kind of blue stone, of about three pounds' weight, closely covered with raw hido plated line, three feet long attached to it. They would throw these shots, called bolas, a hundred yards with accuracy, or at close quarters strike a blow sufficient to break a man's shull, or indeed that of an ox.
The Picunchees mingled freely with the crew on shore, and came on board at will, for they were seen to bo peaceably disposed. On the second morning two of them came off to the brig in a canoe, clambered upon the swinging stage, where some of the crew were scraping barnacles and calling, and while standing there watching the sailors at their work, one of them drew a red apple from his poncho and took a bito from it!

Instantly a shout rose! Ail hands came hurrying to seo what was going on, and then the exclamations burst forth afrcsh.
"It's an apple! It's an apple the bergar's got! An' what did I tell you yesterday?" shouted Clum Lovewell. "But ye cast shame on my nose. Next time I'll believe my nose for all o' whole lot o' a lubbers, an' I axes its pardon!"
The apple-eating Picunchee, much astonished at the clamor, stopped mid-way at his bite; the sailors gathered around him, and failing to make him comprehend their eager questions, rumaged his poncho themselves. He had one red apple in it. They seized upon that apple
as cattle long away at pasture crowd upon the lad with the salt dish. William Lovewell got got possession of it, and with his knifo cut it into little slices, enough to go around the ring of twenty-four sailors; they even ato the skin of it, and the stem and the seeds. Then Costello was bidden talk with the amazed but grinning Indians, and learn whence these apples came.

## an mxpedition.

The Picunchees pointel shoreward, inland and Costello was able to gather from their replies, that at a distance of ten legras (thirty English miles), on the other side of the monte there was plenty of apples. One of the Picun chees asserted that he had recently been there and he gave them to understand that the apples grew wild there in great abundance. and that the orchards covered a great extent of territory.
Clum Lovewell was delighted. The captain was much surprised at this singular intelligence, and among the apple-hungry crew nothing was now talked of save a jaunt after apples; ior the Picunchees unhesitatingly offered to conduct them to the manzanillos, or orchards.
At length Capt. Dustin gave the mate, Valorous Hobbs, permission to take six of the crew with sacks and go after apples. The party, as made up the following morning, consisted of Lyman Stowell, Pleem Frost, the Spanish sailor Costello, Aruriah Brown (called "Rumy"), Neeze Hartly, and Clum Lovewell, with the mate. The two Picunchees went with them as guides. 'Lhey took food from the ship's stores for three or four days, and had three muskets with ammunition, these latter more for the purpose of shooting game than for defence, for they trusted the Picunchees and they expected no enemies; the Indians spoke of none. The mate. however, wore a light cullaps in a belt.
They set off in buoyant spirits, for in addition to the expectation of fruit, was the pleasure o an cuting on shore. They agreed to make the

trip of thirty miles-as reported-that day. Then they meant to spend a day at the orchards, eat their-fill of apples, get their sacks full, and co back the third day. Capt. Dustin had ordered them to return to the vessel by the fow th day.
The two Picunchees led the way by a wellbeaten path, first over a wooded mountain and then down to the shore of a considerable lake, where there was a village of six toldos, or Patagonian huts,-also a log shanty, built some years previously by a shipwrecked sailor, who had died there, but who lelt the name of Henry G. Ackley, cut with a knife on the door post,thence easterly, through a deep gorge between precipitous hills. It was a rough and very rocky place, and the stones, probably obsidian, cut the sailors' shoes to pieces like glass. 'the Picunchee guides proved good walkers, and the sailors, out of practice from being so long on shipboard, were rather bad ones ; but they had true New England pluck, and lept on from morning till late in the afternoon, expecting to reach the " orchard " that night.
The Indians, when questioned by Costello, constantly said, "A little more;" yet they were evidently honest, even if inaccurate as to distance, and the party pressed forward till sunset, having passed two considerable lakes since emerging from the pass in the mountains, and being still in a very wild, craggy tract of country, on the head waters of a small river, flowing due east by their compass.

The coming on of night, with for, compelled them to camp. They were not a little disconcerted, being very footsore, and were somewhat disturbed, too, by the unearthly. squalling of several pumas, which were attracted by their camp-fixe. Withal, it was far from being a warm or comfortable night.
But they were all young men, and with morning light came courage. They set forward early, but were no longer as hopeful as at starting out from the vessel; and the idea of carrying back each a bushel of apples on his shoulder began to be ridiculed by all. After three or four miles, as they thought, another lake came in view-that, I suppose, which now bears the name of Naguelhuapi. They had already come a distance of not less than thirty or forty miles. From this point the path, followed by the lightwalking Picunchees, led then over high, partly open land, along the slope of the corditleras, with the lake spread out on their right, to the eastward.

About the middle of the forenoon, having reached the top of a considerable ridge, the Picunchees pointed off to a vast slope of land about the head of the lake and bending round towards them on the western shore.
"Los nanzanillos." they said (the apple forests).
Beyond it to the north-west, rose the summits and peaks of the Andes, from one of which, far in the north, ascended a thin wand of white smoke. The nearer slope was open land in spots, but mostly covered with woods of dark: russet-green color.
The distance around the northern arm of the lake was still ten or twelve miles. Not a little encomaged, however, and inspired by the noble scenery, the little party of wayfarers went on again. The walking was difficult, for the high lake-shore was furrowed down from the mountains by numerous deep ravines, filled with thorn-brush ; and at length abnut noon they arrived at the brink of ono of these greatbarrances, or gorges, so deep and precipitous that to get across it seemed a formidable undertaking. A rapid creek brawled amidst the brush at the bottom of it. In width the ravine was no more than two hundred yards, and on the opposite bank they saw a clump of apple-trees; but it was more than three hundred feet in depthsheer precipices of crumbling yellow rock and gravel.
The day was bright and the noon heat was so great that the leg-weary sailors sat down in the shade cí a group of souse-brush to rest, while the guides looked for a place to cross, both below and above. They went to a distance, and presently Rumy Brown saw a party of natives on the other side, but a mile off or more.
"I see Indians," said he, and pointed them out.
"There's a lot of 'cm."
Costello supposed that they might be a party of Picunchees after apples like themselves.
"I'hey are coming this way," said Clum Lovewell. "I can see five-six-seven of 'em." Clum's cyes were well nigh as good as his nose. "'Jhey've each one got a long poie on his shoulder. And there come a lot more through some bushes behind 'em, on horseback!' he exclaimed.

## hostile indiaks.

The party was a large one, and came slowly out towards the ravine. Just then the two Picunchees returned. Costello pointed out the approaching party to them, and a's soon as the guides saw them, they expressed great alarm, exclaiming, "Los I'welches!" and instantly sought the shelter of the brush.

Ask them who the I'welches are?" the mate said to Costello.
It was not easy to find out much from the Picunchees, but Costello concluded that they were a tribe which the guides had not expected to see here, and of whom they stood in great fear; for they declared repeatedly that both themselves and the whites would be lilled, and that they must return with all speed.
'And get no apples now we've tramped two days for them?" cried Pleem Frost.
This idea did not suit the New England boys at all. Costello, however, agreed with the two guides that they had better be off and make as few tracks as possible; he declared that he should keep with the Picunchees.

You're a coward, Fredreego!" said Valorous, angrily. Then ensued many hot words.
Meantime the party of lndians came up in plain sight, less than half a mile distant. "They're big chaps!" exclaimed Clum;" or else them be mighty little hosses they're riding, for their feet 'bout touch the ground each side."

But they've got nothing bettern than bean poles over their shoulders to fight with," said Rumy. "I shan't run as long as I've got a good gun in my two hands."
But the two guides dropped upon their hands and knees, and crept off towards a thicket in the rear. Costello started after them.
"Wal, go along, then, you yaller coward!"
cried Valorous. "We sha'n't hurry. However, I don't half-believe these foiks will meddle with us."
"Nor I," said Frost, "if we mind our business."
The Picunchecs werealready out of hearing, and Costello hurried aiter them. They ran for a long way, and finally reached the Picunchee village on the shore of the first lake, late in the night.

Next morning Costello presented himself on board the brig. Ho was haggrard, and his feet were badly cut. Either to excuse himself, or because his head had been completely upset with fright, he told a dismal story. Strictly questioned by the captain, he said that the mate and the others had been cut off by a large band of hostile savares, in a ravine, and murdered there. He had only escaped by rumning all night. He even asserted that he had seen the Ireelches strike down his ship-mates, and had heard their dying cries.
His tale struck horror to the remainder of the brig's crew. Capt. Dustin half-believed, halfdistrusted, the man; he at once selected twelve men, armed them and set off at noon that day, taking Costello,-who had been allowed two hou's' rest-as a guide,-also five Picunchees. The two who had been out before refused to go back. Very little could be learned from them, and what they did say, Costello probably interpreted to suit himself.
The relief party reached the large lake late the second afternoon. ButCostello was unable to find the ravine where the "massacre" had occurred. They penetrated the apple forest as far as the northern arm of the lake, fred guns and kindled beacon smokes, but failed to obtain any trace of the missing men, and on the fifth and sixth days returned to the brig.
On the whole, Costello's account was taken to be true.

The six men wore that night recorded in the qog as lost on shore in Patagonia; and the captain reproached himself greatly for allowing them to go on such an errand. Valorous, the oldest of the party, was but twenty-four years old, while Rumy and Clum were no more than eighteen or ninetcen, - not much better than boys, in fact, any of them.
Meantime, what had been their fate?
(Tobe continued.)



# 舞WO YEARS OLD. 

## MASSEY-HARRIS CO., Lide, CLOSE A SECOND EMINENTLY SUCCESSFUL YEAR IN ITS HISTORY.

## a rethospective glance.

Tre people of Canada have now had an opiortunity of judgring as to tho expediency and desirability of the organization of Massey-Harris Co., Ltd. Immediately upon the announcement of the proposed incorporation of this Company certain uewspapers and individuals took it upon themselves to pre-judge it; and heaped no end of abuse upon its organizers because of things they umjustly surmised this new Company would likely do ; and which, as a matter of fact, they have never been in a position to do had they so desired. As to whether their forecast of Massex-Harmis Co's policy was correct the public may now have an opportunity of determining for themselves, as the Company is just entering upon its third year. Such judgment without a trial was not only unfair but unjust, particularly when the very best of reasons for this move were clearly apparent, and the objects of the organizers were fairly stated. Further, the Company was not founded by a band of speculators, whose sole object was to make money at the expense of reputation and character ; but the organizers were every one of them men of undoubted character-men well
and favorably known throughout the entire Dominion as the most reliable and stable manufacturers of agricultural implements. These were not men who had achieved the degree of success they had attained by speculation or gambling in stocks, produce, or real estate ; but they were worthy citizens who had worked hard all their lives in the implement business and whose names were familiar household words in the homes of Canadian agriculturists. They foresaw the downward tendency of the agricultural machine business-the unwarranted and senseless competition leading to many failures and foreshadowing the ultimate decline in thequality of machines produced. They could propound no other remedy than the dissolution of some of the too many existing manufacturing concerns and the organization of a new Company which should have a sufficiently large capital to put it on a proper financial basis, and which should do away with the expense of maintaining four or five sets of agents in every village, to say no-

tersof Massey-HarrisCo., Ltd., brought about its organization. Being firmly convinced of the wisdom and necessity of the move, they entered upon it with honesty of purpose, making a declaration at the time that if the enterprise worked out as anticipated, the savings effected would not go into the stockholders' pockets alone, but should be shared by the farmers, as we previously intimated at the beginning of this article. This was, however, poohooed and decried by a few pessimists, thuugh beyond question the management of the new Company were of such reputation that they retained the confidence of the farmers of Canada, as the great success of the enterprise has indicated, and certainly the results prove conclusively that our agriculturists have not misplaced that confidence.
Some of the advantages which have accrued to the farming community are as follows:-

1. Through savings effected by consolidation of management, of agencies, and also in manufacturing and distributing goods, the Company has been able to make a substantial reduction in prices.
2. The Canadiau farmers are now able to buy their implements at as low, if not lower prices than the farmers of any other country in the world.
3. The consolidation of patent rights has made possible the uniting of the best puints of the sereral machines made by the former concerns into one machine. Result: Better machine than ever.
4. Canadian impleraents are now recognized as having no superiors: They have captured the foreign markets, where they command the highest prices known to the trade, and where they have won the highest awards.
5. Theorganization of Massey-Harris Co., Ltd., has put the Canadian implement business on a more solid financial basis and given it sufficient capital to provide the necessary warehouses and carry the required stocks at convenient centres, so that the agriculturist can depend on more prompt and more efficient service.
Canadians have been quick to acknowledge these great advantages and have given this worthy Company their most hearty support. The few individuals (principally rival firms' agents) who have resorted to slandering the Company and its founders in order to accomplish their ends, have only wasted their energy and have done themselves great injury, so apparent was the falsity of their assertions. The malicious statements made by them against Masser-Harris Co.-amongst other things alleging that it was a combine organized specially for the purpose of extorting high prices, squeezing out other firms, and otherwise con-

trolling trade-have been proved by the Company's real course of action to be absolutely false and without foundation, to say nothing of the fact that the Massey-Harris people are not, nor have they been, nor do they strive to be in a position to do these things. These statements have been libellous and might have been suppressed by legal measures, but the Company have found it entirely umecessary to seek any further defence than the judgment of our fair-minded farmers as to the truthfulness of these allegations. They have further felt assured that the agricu'tural community cannot easily be hood-winked by such barefaced slander, and that they cannot fail to appreciate the benefits derived from the organization of MasseyHarris Co., Ltd.
There are no less than eighteen or twenty implement concerns inCanada, whose aggregate businesses amounts up into several hundred of thousands of dollars. MasseyHarris Co., Ltd., cannot therefore be considered a monopoly. This Company does not seelr to cor.crol the Canadian implement business, nor has it made any effort in that direction. It does not hope to obtain any more trade than it merits. By the most energetic measures and untiring enterprise the Company aims not only to maintain its present enormous trade both at home and abroad, but to still further increase it by producing the best possible machines and selling them at the lowest possible price, which has been the directors' policy since its inception. The principles which govern it are the very best. From the commencement of their business it has been the aim of Massey-Harris Co., Ltd., to secure a substantial and enduring success by thoroughly deserving it-by furnishing machines of such undoubted excellence that each one will be a standing advertisement and recommendation of its worth. They will neither make nor recommend a machine or implement of inferior construction, and their guarantee will not be attached to any machine or implement that

great quantities of machines and implements they have alrcady sold. For the season of 1892, 41,474 machines and implements wero produced, while over 45,000 machines and implements were manufactured by them for the season of 1893.
It should be clearly evident to every reader of Massey's Illustrated that a vast army of men has been employed in building and distributing this tremendous output. A careful estimate indicates that no less than 7,000 peoplearenow directly
sustained through the business of MasseyHarris Co., Ltd., alone, and that about 4,000 persons are supported through the preparation and handling of the enormous quantities of raw materials used by them. It must be gratifying to Canadians to know that by far the greater portion of the $40,000,000$ pounds of steeil, pig iron, bar iron, malleablo iron, etc., etc., now annually used by the Company is produced in Canada, while the $5,500,000$ feet of lumber and the 148,000 square yards of cotton duck are Canadian products.
Now that so large a proportion of the annual output of Massey-Hamins Co., Ltd., goes to foreign countrics-a trade which is continually on the increase-the value of this industry to Canadians is greatly enhanced. Who can estimate the worth of this one industry to our citizens? It takes a good many acres of wheat to supply bread to all the people employed directly and indirectly in this great industrial enterprise, and the products of many farms to provide them with Canadian beef and other necessaries of life.

Five or ten minutes spent every morning during winter in rubbing the body briskly with a flesh brush, or piece of flannel over the hand, will do much to keep the slin active and prevent colds.
If one live far from bakeries and breadshops, crackers may be kept with great advantage in the house, if the secret of freshening them by putting them for three minutes in a hot oven be known.

If ants infest the storeroom sholves, a tiny range of powdered alum males a threshold which they never cross. A few cloves strewn over the shelves, and occasionally renewed, will also usually disperse them.
One may know how to make twenty different omelets; but if she does not know that a little sait rubbed on the discolored spoon or fork will re-
store its silver tint, the serving of eggs in any shape will always give
her trouble.
Wiere animalsare kept healthy the medicine bill dnes not disturb the farmer's dreains.



TWILIGIIT-LふND.
Here we arc in twilight-land Creakety-creak Rocking clairs at every hand Here is neilher and swing, and squeats; Here is ne ther park nor street Wate White are the gownis and loose; No place hace for hall or hat,
No need now for cont or hat, None for stockings or sloes.
What are the storiea of twilight-land? Hark, alt, hatk Call the sweet names where they stand, Cinderella and hitt le 130 peep Who lost her sheep, her preter sheep; And the fime le lears livine in the wood, And the wolf that ate Red Ridine Hood, and the spinuing puss, ton.
The little children in twillght-land and Arestill as mice And the story-teller must widerstand She's to tell chach story twice. Perhats the mant ti the moon may think But Them suncy in their play, But, whatever is heard or sail or done, Each slegiy, wary litte mict gets rested for next day
For the pillow is white in twilight-land, Alid white the ied And the teneler, loving mother's hand Is laid on the drowsicst heid. And list, the tune sle hums and siuge, As with soft erank the rocker swings, How far away it scems:
 They are feaving twilighththand, you see,
For the stiller land of diems. -Clura Doty Bates.


From the prize lists published, it is seen that the Canadian cattlemen did well at the Chicago World's Fair. A large proportion of prizes came to Canada for horses also, thenobleClydesdales standing very nigń. Ontario and Quebec ran neck and neck in the cattle competitions; in horses, Manitoba had an innings with the older provinces.

From almost all parts of Canada came reports of an exceptionally good August. Not only were the grain crops magnificent, but the wearher, also, was favorable. In some localities the straw was thin, but nowhere that we have heard from has the grain been inferior, Harvesting in the wheat fields began early and the crop was secured safely before the end of the month.

The hay crop was exceedingly heavy. In many districts operations continued untii the last week of last month. When at length completed, the barns were filled with one of the best crops of hay ever cut in this country. A
portion of it-not very large-lost in the curing owing to the frequent rainstorms of July and August, but the abundance and the good condition of the greater part of it more than makes up for the deficiency of the badly cured part. Our farmers should all use hay tedders, and they will be more certain of saving their hay crops. The advantages of tedding are worthy of careful investigation. Peas, barley, and oats, some of which have not yet been harvested, are heavy crops and unless damaged by the excessively heavy rains of last weok and this week, ought to prove satisfactory yields.

Dnought and hot spells ruined the pasture in some localities. Clover and timothy will show up well. The crop report issued by the Ontario goverument may be summarized thus:-Corn is fair, potatoes possibly up to the avcrage and roots will yield over the average. Apples are a complete failure, grapes exceptionally fine, and pears and berries above the average in most sections. A scarcity of butter is reported in the West, the dry weather having lessened the milk supply. Bees are everywhere reported in a healthy condition and the supply of nectar good. On the whole, the report is a more cheerful one than some of the carlier forecasts allowed us to look for. The total area under crop is $8,054,612$ acres, as compared with $8,060,-$ 206 acres last year.

The first of the leading Canadian Fall Fairs has just closed at Stanstead, Que. The display of stock was especially interesting and noteworthy. Taking it as a whole, it equalled the magnificent showing of last year, although a slight decline was noticeable in the milk grade, and, moreover, some of the best herds contributed their best animals to the World's Fair, Chicago. The sheep display was also exceedingly good, especially in Leicesters, Shropshires and South Downs. The eastern townships are famous for their grazings and fine live stock, and the Stanstead show brought together some very excellent specimens in the classes referred to and in heavy cattle.

In Nova Scotia as well as in Ontario, greater attention is being given to the dairying industry. Driven by decreased returns from cattleraising, the farmers are seeking a more profit able sphere of labor in the production of butter and cheese. The Provincial government is doing a good work in inculcating a scientific knowledge of dairying. In the school of agriculture at Truro, the most improved appliances are now used. In addition to tho oudinary instruction in the institution, special lectures are being delivered for advanced pupils of the Normal school. These are followed by practical demonstrations, which enable the students to apply the knowleuge they have acquired. During the vacation a special butter class will be formed so that students may give their undivided attention to the subject. The general public is not to be neglected. A course of practical instruction to farmer's wives and daughters was given last month. This is a genuine method of improving trade. Let the products be the best, and they will always command the best prices.

Trie much-looked-for report of the commissioners appointed to investigate the complaints about the Ontario College of Agriculture has at
last been made public. It will be received by many with much regret. It will cause the resignation of two or three most efficient members of the college staff, and will leave heart burnings all verin It falls most heavily on Professor Shaw and next on Professor Sharman. The latter has resigned, and the former is defending himself in the public press, presumably previous to handing in his resignation. Principal Mills is sustained, but the evidence, such as it is, leaves no doubt that it was most unfortumate the president did not try to secure harmony between himself and one of the very best arriculturists on this continent. Professor Shaw's withdrawal will be a distinct loss to practicalfarming in the Dominion. He possesses wide and accurate knowledge, and on the farm he had the opportunity, surrounded with giod conditions, to experiment and to observe, and to fcrmulate such as he cannot do on a private farm. He found the farm, not in very good condition, and in three ycars he converted itinto a well-kept, well-farmed place, where practical instruction was given to the students by a master of the art. He showed what he could do, and his students seemed to drink in his instruction, and to idolize the teacher. In such an institution as the college at Guelph, there must be strict discipline, but it seems hard when professional men, men of culture and education cannot pull together so that there might be no sericus misunderstandings and division of counsel. The report is not sufficiently clear or conclusive to form a judgment, upon it, as to who the guilty party is, but should Professor Shaw determine to go he will carry with him the good wishes of many of the powerful agricultural community of Ontario.

Tud recent complaints that the settlement of crofters at Saltcoats had proved a failure, leads the Calgary Tribune to say:-"The duty of our government, for instance, is to encourage farmers of experience and means to settlo among us rather than those classes who have neither farm experience nor the mears of living without public assistance. Weneed not bother ourseives about 'Scotch Crofters or Hungarian Jews from Chicago, or the unemployed workmen from Homestead or Pittsburg when we can secure farmers from Wrashington, and Idaho, and Oregon and Nebraska, who have made a success of farming, who pay their own way, who bring their bands of stock and cattle, and are in all respects desirable, peaceable and industrious settlers. All tuat such settlers ask is that the yovernment will not, add to the expense of reaching their homes in the North-West Territories by maintaining a useless and costly quarantine system, subjecting them to inspection fees on horses which are seldom inspected, and annoying them with irritating customs regulations that are of no real value to the country. They merely ask the government to 'lte up' on what are vexations to the settler and do no practical good to anybody. Good settlers from any quarter ought and are always welcome in Canada. At the same time, it is emphatically the duty of the Canadian government to swell the volume of British immigration as much as possible by making Canada an easy and a pleasant country to live in, so far as laws can effect that greatly to be desired end. And there is little doubt that British born settlers would prove better Canadian citizens than would subjects of the United States, who would be liable to return to their native states as soon as a wave of prosperity returns to these countries.

A largely attended meeting was held in Torontolast week in the interests of the proposed Hurontario Ship Canal. The meeting was strongly in favor of the project, the promotors making a good case. A convention will be called of representatives from the various districts interested.

The scarcity of farm labor has this year, again, given much trouble and discomfort and caused great loss to the Ontario farmer. It is perennial. It is in times like these that the value of machinery is properly estimated. When harvest comes on, and every second is precious as gold, then the farmer turns to his faithful Massey-Harris machines, which never fail him, however the hired man comes shorit of his duty. Yet the farm help question is one not easily got rid of. This season the wages in harvest time was from $\$ 1.25$ to $\$ 2.00$ per day, and from $\$ 26$ to 830 a month all found. In a few districts the great scarcity did rot increase the wages, a rather curious experience.

The annual summer fair of Winnipeg was held last month and while in the opinion of good judges, some features have not been given the usual praise. A great improvement was noted in the general excellence of the display over last year. The falling off was clicfly in the live stocir department, and is to be regretted, ior Manitoba should make rapid advances in stock and mixed farming which is profitable in Ontario, and should become general in the west without loss of.time.

IN England in 1845 the average yield of wheat was 13 bushels per acre, in 1885 it had increased to over 31 bushels per acre,-the result of scientific agriculture. In France thirty years ago, 22 bushels was an average wheat crop, now 33 bushels, an increase of 11 bushels per acre, In some of the best soils in Northern France 60 to 80 bushels per acre of wheat have been raised. What is the average in Canada-down in round numbers to 18 bushels-SCIENTIFIC AGRICULTURE pays always and anywhere, and under all and any circumstances. Try it.

Mr. Helbert Gardner, the British minister of agriculture, has determined to shut out Canadian cattle from the British market. Two facts prove that he is animated by political reasons. 1st, It has been already demonstrated that no pleuro-pneumonia exists in Canada. A rigid exarnination of the lungs, etc., of cattle slaughteved immediately on landing, showed no trace of that disease. 2nd, Farmers in England are speaking out in favor of the restriction on economic grounds. Danger to their cattie from contagion has been abandoned now, and the effect upon the market prices is urged as a sufficient reason why there should be no umrestricted importation from Canada. As was pointed out in these columns once before, Mr. Gardner represents a constituency in which the agvicultural interest is very strong and he was pledged at his election to come to the farmers' assistance to the best of his ability. He is now fulfilling his pledge. But there lies an appeal from Mr. Gardner and his farmers to the British people, and there are not wanting indications that the final court of appenl, the voters, are decidedly against the restrictive measures now in rorce. Scotland is aroused to a pitch of excitement over the question. Public meetings are being held, sometimes two or three a week, in which farmer, artizan and merchant join in denouncing Mr. Gardner's measures. There is, therefore, some hope that the pressure of public opinion may effect a relaxation by next season. It is gratifying to know from returns recently published at the port of Montreal that the volume on the cattle trade has been much better than could have been expected under the circumstances, and that the greater portion of the traffic has been in fattened cattle.

Tind Patrons of Industry have been icr some time devoting their consideration to a political platform, and they have at length decided
upon a creed with fourteen articles, some of which will commend themselves not only to farmers but to the general community. Here they are: 1, Maintenance of British connection. 2, Reservation of public lands for the actual settler. 3, Purity of administration and absolute independence of Parliament. 4, Rigid economy in every department of the public service. 5 , Simplification of the laws and a general reduction in the machinery of government. 6, Abolition of the Senate. 7, Reduction of the Grand Jury from twenty-four members, as at present constituted, to twelve members, seven to constitute a quorum. 8, A system of civil service reform that will give each county power to appoint or elect all county officials paid by them except county judges. 9, Tarifl for revenne only, and so adjusted as to fall as far as possible upon the luxuries and not upon tho necessaries of life. 10, Reciprocal trade, upon fair and equitable terms, between Canada and the world. 11, Effectual legislation that will protect labor, and the results of labor, from those combinations and monopolies which unduly enhance the price of the articles produced by such combinations or monopolies. 12, Prohibition of the bonusing of railways by Government grants as contrary to public interests. 13, Preparation of the Dominion and Provincial voters' lists by the municipal officers, 14, Conformity of electoral districts to county boundaries, as constituted for municipal purposes, as far as the principle of representation by population will allow.

## Principal Canadian Fairs.

Followind are the dates of the chief fairs to be held in Canada this yoar:-
place of Fark.
Toronto.
Sherlirooke, Cue
Pleton.
London.
Wellestey:
Renfrew.
Guchip.
Whithy.
Perth..
Bralleville.
Ottawa...
Peterhoro
St. Catharine:
Kingstont.
Wonalsiock.
Milverton.
Lurtham..
riaisley.
Brantforl.
Walkerton.
Collingwood
Liuday.
Canuington.
Branpton.
Tilsonhurg.
Stratford.
Aylmer.
Caynga
Arthur.
stayner.
Almonte .
Chatham..
Mawham.
Elora..
Deachlurge
Otterville.
Ridgetown.
Woodhnidere
Sincoc...
A mee
A meeting of the Canadian Fairs ani Exhibitions will be held in the Directors' Room at the offices on the 「oronto Exhibition grounds, during the second week of the Exhibition. All Exhibition Asscciations are invited to send delegates.

Dull business and the bank failure in Winnipeg have affected money in the west, but the good crops are regarded as the means by which the situation will be relieved.


1st.-Peace rectored in Nicaragua. of hay reported from Kingston, Ont. ${ }^{\text {in }}$, Sixtieth sulhiversary of the lilieration of the slays in British West ease disensed by the Montreal Presibytery.
2mb.-The comer-stone of the new Erskine Preshyterian clureh, Montreal, hidd
kolk raised. vention Ous sound anced Prohilitionists held conSomil.
Hrd-Bank of Eneland advanced its rate of diserment to tro and thre quarersicresit.

Mis, Fleniug, Brampton, Ont., drowned in Lake Rossenu
4th.- Corner stome of St. James' Anglican chureh, Morris
 the C.A.A. O, ammal reeatta at limilton, Ont. British uaval matuedures closed.
5th.-President Cleveland antived in Warhington. Julge Davis, of London, ont, died. sons of Alr. Mitelhell, Sarna, Ont, are cidentally Jilleed on the " 1 "addle your own Canoe," dicd in Indianapolis.
7th.-Emperor William Jeft Cowes, where he hand spent a week at the yacht races Conspres oncurclat Tashington.

The catra sesion of sanid Lslands cotutermanded.
8tl.-Italian man-of-war letma left Montreal for Quebee, Autumn scssion of Imprerial Itouse of Commons aminomed. arived at Montreal
Sth.-Bank of Enghand advanced mate of liscount from three to four jer cerit.

Grat seareity of small silver amounced in Italy, Fierec rain:and wind storm

10th.-Two hundred hoys from Dr. baruardo: lomes left for Canada. - , Willane Elliott, it well-kilows man of Boltont Ont., was thrown ont of his hurery and
killed. . Prince of Wales' Brillania beat the imerican Aaralioe at Cowes' yacht races
Ilth.-President Cleveland lianged in effig: at Colden, Col., by Free Silver cuthusiasts. engineer, Sarnia, killed hy a driving belt. Aex. Mumb announced her intention to occupy the Chinese Pamirs.

12th.-Thomas Lock fell from a train at Intrord, ont., and was killed. - - Xeliow ferer alpeated in Jruns withdeaw from the Bank of England for slijment to Canada.

1th.-Great Tilheral rally held at Montreal at which the leaker of the party spobe. day. . The religrons fiots at jumbay sumpreserd by an imjnsinir military demonstration. a ind Luramiat hour on leer trial trip.
15th.-Delituge Sea award issued.

 Gallacia d:mared erops and property to the extent of many millions of florius.

1ath.-Carl Mueller, the German painter, and director of the Art Academy at Dusoldorf, ried to-iang.
national Deare Convrosonomed at Chicuro.
nationt railway dediut a divideud of momerail resumed in bombiy.
17th.-Legistative Assemm N. W. Tenjories met Windsor, Ont., banks suplling latre amombtsor Camadin

18th.-The viearlate of Idano, mised to the dimuty of a
 stranied on Haisker, one of the outer Helrides gronj).
19t..-The annual games of the 18 th highlanders leld in Toying 1,000 men, esumed worteyer sugar retineries, em ploying 1,00 men, restmed work.
21 g.- Monument to President Lincoln muveiked in Edin lurgh, Seotlank. Navigration beturns of Montreal uid to today finw dot vessels arrived ln lurt against $4 / 6$ onn
Gemed. The Roval Camadian Dracoons nrrived an Toronto from Queljec and took up their new quarters at the Fort harrichar tome the
oard.-The Mianiona Schoml case reached the Supreme Comrt - Bundy of $11,1$. . Ross, of Ottawa, found at Hamilton. Fonl plity feaved
2.th.-Fuidenic of dyenin raging in Jipun.
fire in Chicago destroyed zio liouses. Danlape over $\$ 1,000,000$ 2ith.-Town of Mereed Falls, Cal., destroyed by fire.
2tht,-The Negrond Caffarenli Pasace, Rome, bursed to the ground.
28th.-Bishop Chester (Protestant) of Fillaler, dient. Ammal meeting of Dominion Rifte Associntion ourenci at Ottawa.
20ilh-Mcavy ralustorm passed over Ontario, damaging ats, batley and 1 mas.
suth.-Sir Charles Tupper andived at Wimipeg on route to vist the Crofters settlements at saltconts, Min.
31st.-Chicago limited express broke through an iron midpe at Chestor: $1: 3$ killed, many injured mill burned at Wisterbourne ; loss $\$ 16,000$.


## Milk Tester.

The illustration here given shows some additions to the mill tester which save time to the operator. A is a glass tube, with a glass stopcock, called a burette It is graduated in tenths of a c.c., but the marks shown in the drawing are for the proper amount of acid to be used. B is a glass funnel ; C is a reservoir bottle holding two quarts. When ready to test, fill the bottle with acid, and then run the burette full. The testing flasks can then be supplied with the required amount of acid from this, in one-quarter of the time necessary to accomplish the same work with the measure furnished with the machine. In adding the hot water, we hive another method which is quite handy, shown at the same ligure. It is a can with a flat back, to which is attached a small rubber tube four feet long. This hoso has attached to it a glass tube with the joint drawn down. Just above the glass joint is a pinch cock. The can is humg on the wall above tho tester. When ready to add the hot water to the test, fill the can, and from this add the needed amount to the flasks.-LI. J., in Rua'al New Yorker.

## Side Hill Ice-House.

Farmers who are thinking of building an ice houso this fall may study the plan given here, with advantage, although the expense of such a house as represented would be rather more than that required for a house grood enough for the general run of things.


The engraving, reprinted from the Country Gentleman, represents the form of construction, when the lower part is built of stone and the upper of common vertical boarding. As the lower part is more than a foot in thickness, the timbers of the upper must be so constructed as to give an equal thickness, and to allow all the contents to settle alike. If, however, the whole is built of stone, this provision as to thickness is not necessary. It is hardly
necessary to mention the common provision for making non-conducting walls by allowing air spaces to be filled with sawdust. This sawdust should be ten incles or a foot in thickness and carefully and compactly filled in. If there is a perfect drainago below, the side walls well constructed, the ice covered with sawdust on top, over which there is a free ventilation, the ice will keef well. An interior size of 14 by 16 and 9 feet high will hold about 40 tons, and will kecp plonty of ice during the time mentioned for a moderate family, if properly cared for.

## Potato Digger.

One of the hardest problems inventors have had to face has been the construction of a workable potato digger. The Rural New Yorker gives as reasons: This is because digging is the hardest and most complicated part of potato growing-weeds, stones, vines and hard-packed soil have all to be overcome in digging potatoes. The actual force of throwing the tubers out of the soil is but a part of the process- they must be screened or sifted from the earth as woll. In fact, this sifting has proved the worst obstacle in the path of the inventor. It was easy enough to devise a strong plow that could pass under the tubers and throw them out with dirt, stones and vines, but a good portion of the potatoes were morc or less covered and hidden from sight, The problem then, was to devise an attachment for shaking out the dirt and stones, and leaving the tubers on the top of the ground. Two distinct methods have been worked up by inventors. One is represented by a large, heavy, complicated machine with cog wheels, shakers chains and many parts. This is to scoop up vines, dirt and tubers, shake out the former and pass the latter out behind on the surface of the ground. These complicated machines do good work, tho objections to them being that they are of very heavy draft, expensive in price, and so complicated, that the average cost of repairs is quite a large item.


The other plan was to devisc a plow with a simplescreening attachment without expensive fixtures or heary weight. The argument in this case was, that the average farmer did not want a complicated or expensive machine, but one that his single team could easily handle and which would not demand annual investments for repairs. Beginning with the shovel plow with spikes or fingers ranged about it, this idea has been doveloped until we have the arrangement shown in the accompanying cut which is the best simple device yet produced. In this machine the potatoes do not fall behind at all. They are sjmply plowed to right and left, falling upon the lonfs screens which run lightly and easily over the ground almost exactly as one would dig in the soil with his fingers.

## Artesian Drainage.

J. E. WING writes the Country Gentlemen: -"The drainage of springy land is often very difficult. The ditches put through the wet place are found to drain only imperfectly the surrounding soil. I have seen water stand on the surface of the ground with tile bursed $B$ feet below-all clear and free and in good working order. The reason is, the water is forced out of the ground by an upward pressure, and comes through little seams and veins distributed through the soil, many of them near the tile perhaps; yet the water will come nearly or
quite to the surface before it works its way to the tile. The condition producing this state of affairs is illustrated in the cut. $\Lambda$ shows upper

stratum of wet soil, which is often peaky or mucky; $B$ is a layer of hardpan or tough boulder clay or marly clay; $C$ shows the gravel water-bearing stratum; $D E F$ are the minute natural water channels from latter to surface. The tile is generally laid directly on the hardpan, as shown at $G$. If conditions are favorable, this willdry it sometimes. To cutdeeper into the hardpan is useless unless you can go clear through, and this is of ten impossible. have done it, however, with the very best.results. To go clear through the hardpan is often too expensive and even impossible. I havo cured very difficult places by taking a post-holo digger and sinking a small hole through tho hardpan down to the water-bearing gravel, a shown below $G$ in the cut. The water will generally rush up and flow off through the tile This should be done at intervals of about a rod.'

During the first five months of 1893 Chicago received 107,471 carloads of live stock, compared with 129,370 last year.

In Pennsylvania, according to a recent census dulletin, there are 513,403 existing mortgages calling for $\$ 613,105,802$.

Many farmers have tried to increase their in come by increasing the size of their farms, but it will not maintain the ratio.

A well-conspructed silo has more to do with the good keeping qualities of its contents than does the artistic packing of the fodder.

The London Times urges British farmers to adopt some method of preserving butter, so a: to save the trade in the English market.

Lots of grumbling is heard about all kinds of farming being " overdone." If this "over done" business is the cause of the finer breed of stock now bringing such good prices, we hop it will continue. Everything can be remedied except discontent, and the only cure for this to cure it before it gets a lusty growth in you disposition. Perhaps you are "overdoing" kicking, and are "underdone" in the matter thinking. An old idea, but it may be nev when applied to yourself.

In the pathological laboratory of Johns Hop kins Hospital it was necessary recently to de termine the exact action of the poison of the rattlesnake. The creatures were kept in a wire covered box. When one was required for ex perimental purposes, it was caught round th neck by a noose at the erid of a stick. A dee glass yessel was than presented to the enrage animal, and it instantly struck its edge with it fangs. The poison, which was caught in th bottom of the vessel, was free from all foreigt admixture. Minute quantities injected beneat the skin of rabbits produced marked leso. Fo some reason or other the snakes refused food and in order to keep them alive an egg mixtur had to be forced down their throats by mean of a stout glass tube.-Scientific American.

## Witibe Stack.

## The Greedy Pig.

In a farmyard old there lived a pig, With bristles black as ink,
And all the day, an I ve heard say,
At length he ate so very much
That he grew remarkably stout
And there he would lie in front of the sty Too lazy to waddle about.
One day the farmer spied him out,
And piggy was strightway taken,
Aud soon, alas! it came to pass
He was turned into strealiy bacon.
Ofat pig 10 black pig 1
Why, why didy you stuff when yon're had quite enough And lave me your fate to liewail?

## Talk on Wool.

In an interesting article which Mr. Henry Stewart contributes to the Country Gentleman, he predicts a steadily increasing demand for wools, and that of many grades suitable for al demands of necessity or fashion. He s:ss: Wool is now differentiated by breed, and by the parts of the sheep's body. It must not be supposed that the whole body of a sheep bears the same kind and quality of wool. This would be a wholly mistaken idea, and one that would stand prominently in the way of any intelligent consideration of this subject. And this is one of the most important things for the wool rrower to study when heis thinking of improvng his wool-bearers. The diagram here given

will represent the difference in the quality of the wool of any one of the Down breeds, and approximately of that in a Merino. For the quality of the fleece is yet dependent to a large extent on the form of the frame, even of the most highly bred Merinoes, and it will be centuries, perhaps, hefore the most skillful breeder will be able, if ever, to overcome the tendency to this local variation in wool. Hence the wool-sorter's occupation will still remain until by successful crossing and long continued breeding the whole carcass may bear wool of a high value if this were desirable. That it will be desirable to the wool-grower seems to be very certain, although there is a necessity for many prades for the manufacturer. The weol from the centre of the sides, marked 1, is of tho finest quality. At 2 and 3 the fleece becomes coarser and shorter, and as the breech is approached, at 4, this coarseness, and length, too, are increased. The most inferior part of the fleece is on the belly and brisket, as at 5 and 6 , that on the legs being almost like hair. Every Merino breeder will know how much has been done with that breedin bringing the fleece to a more even sameness of quality, for in some of the Merinoes the belly wool is much better than in the Down breeds, and the leg wool is wool down to the hoofs."

## Plan for a Sheep Barn.

The following illustrations show a sheep barn on a large scale. The lower story is 96 by 160 feet outside, with the side walls nine feet high. The upright or centre part I have planned is 48 by 160 feet, with 24 -foot posts
above basement. This part may be varied by making it wider or narrower, higher or lower according to the storage capacity required.
There is provision for eight ventilators, four on each side, and these come from nearly over the division between the pens on each side of the barn. There are three windows and a door on each end of the upper story and three windows on each side. Tbree doors may be made on each side, if desired, for ventilation and for running a belt from the engine to the thrasher placed on the floor. These doors should, of course, not go below the roofs of each lean-to.


The windows in the lower story, of which each side has seven, are placed directly opposite the division fences between the pens, so manure from each can be thrown out when cleaning out the outside rows of the pens. Each end should have four windows. This will give 22 windows to the lower story, affording ample light to all the sheep. Fig. 2 shows the lower story with

the pen or alley arrangement for the sheep-fold. The centre alley is eight feet wide and runs from end to end with a door at each ond, shown at D. D. This aliey is wide enough to allow one to drive through for cleaning the manure from the inside pens and may have a trap-door from the upper floor opposite each cross or feeding alley, or only four as shown in the cut, through which to throw down forage and bedding from the storage-room above.
The windows are shown, marked W. Each pen has a gate marked G. In the center of each lot of four pens is placed a water trough as shown. These should be made of galvanized iron and be three feet long, one foot wide and six inches deep, placed in a light wooden frame fastened into the fence so as to extend into each pen. The water may be supplied from a tank in the barn above or from a spring; no matter whence, only that it be pure, fresh and abundant.

It is not necessary to pound the cow to get milk out of her.

Good training is necessary to properly dovelope the horse.

Let the sow be eight or nine months old before breeding hor.

Giving charcoal to the hogs acis upon the blood as a purifier.

The same feed that makes beef in one cow makes butter in another.

Tire proper way is to leave the coli in the stable when the mare is at work.

The average weight of beef steers in England 180 years ago was but 370 pounds.

The brood sow will not need more than one half the feed if given grood pasturage.

Cork is a standby in fattening hogs, but it should not be too much depended upon.

The farmer whose principal product is grass appreciates the value of cattle and hogs.

Good sheep, fully as much as good stock of other kinds, will always fetch good prices.

When possible now, do the hardest part of the work in the earliest part of the day.

Ir seldom adds to the beauty of a horse to rein his head out of the way that he naturally holds it.

## The Monltry gian

Stagnant water is one of the first steps towards cholera.

Tue hen that is too fat is the one that is laying the soft shelled egg.

Better get rid of the chicken-killing dog before he gets xid of the chickens.

Pullets will prove much more profitable if they are not crowded by the other fowls.

Plunginge into hot water immediately after picking will often make the fowls for market look more plump.

Do not keep more fowls than you can readily feed without depending too much on the income of the business.

Ir is not a good plan to clip the wings of laying fowls, for the growth that goes to make up the lost feathers diminishes the egy-production.

Taine a bit of lard the size of a marrowfat pea and rub it on the head and neck of your young chicks. You will rid them of the large grey lice.

Ir is not a good plan to confine fattening turkeys for any length of time. Let them run until within about ten days of the time you intend marketing them.

Try raising Guinea fowls along with your chickens. They very seldom are troubled with the diseases that attack the ordinary domestic fowl, and the flesh is very sweet.

A Pexin duck will lay from 120 to 150 eggs in a year, and it is not hard to make a pair of young Pekins weigh ten pounds when ton weels ôlu. They are profitable birds.

Kerosensi is beneficial in so many ways that it should always be kept among the poultry house supplies. Applied externally it is a disinfectant and killer of yermin. Internally a little in the water or feed will prevent cold and roup.


Vegetabie Poetry. Potaroses came from far Yirginial ; french beans low growing on the carth, To distant Imbia trice their birits; But searlet rutures. pay and tall. That climb upon your trardell wall, A cheerful sisht co all around.In South A nietica were fombi. The onions traseled here from Spain; The leek from Switzerhant we sath,
Garlic from Sicily ohtain, Garlic from Scely obtan,
Two humdred years ago or moro Ihrazil the atticholies sent o'er, And sonthern Europes sen-coast shore Beet roots on us bestows.
When Lizabeth was reigning here, leascame frou Holland, and were dear. The south of Eurone lays its elaim To heans; but some from Eypyt came. The radishes, boththin and stont, Natises of Chma are no dontut: Wht turnip, carrols and sta-kale, Are products of our own paie Are products of our own fair lame:
Which abler pens misht welldescrihe, Are also ours, I understand.

London Young Folks Liural.

## Sardines.

Mr. F. S. Dellenbaugh, in a paper upon Finistere, read before the American Gcographical Society, describes the sardine industry as it is practised off Pontaven, on the coast of Brittany, At times, he says, there are as many as twelve hundred fishing-boats collected at this point where the sardine, while on its north-
ward journey, attains its most desirable size for taking and packing. The boats are about thirty feet long, entirely open except for a short deck at the stern, and carry two masts that can readily be taken down.
The net, about twenty feet long and six or eight feet broad, is weighted on one long edre and buoyed with cork floats on the other, so that when it is in the water, behind the boat, it assumes an upright position like a wall, and in this position is towed through the water, by one end, as the boat moves slowly along.
The captain mounts the little deck at the stern with a bucket of bait called rong, the cggs of codfish, under one arm, and his practised eye ranges the water. When he discovers the proximity of the fish he scatters a little of the rong on one side of the net, and they rise in a shoal to take it. This is the critical moment. He throws a quantity on the opposite side, and the fish, making a dart for it, are entangled in the meshes.
When the sardines are numerous the boat does not halt to take the net on board; by means of a certain pull the meshos are tightened, and with a buoy to mark it, it is cast off and left till a full catch is made. Another net is put out, and the operation is repeated till all the nets are used.
Then comes the picking up and extraction of the fish, the latter work being performed with great care because handling the fish injures them. The net is caught up at the ends and see-sawed till all the fish drop into the bottom of the boat, where they remain till the arrival in port.
There the fish are counted by the two-hundred into coarse baskets, and dipped in the water beside the boat to free them from loose scales and other matter. Thence they are carried to the factories and thrown upon long,
low tables, on each side of which is a row of women and girls, who, with a short knife, prepare them for the salt vats, where they remain for two hours.
After that they are placed in coarse baskets and given a bath of sea-water under a pump. Then they are put to dry in the open air on wire racks. When the fish begin to shrivel, the racks are taken to the oil-room, where four or five tanks of olive oil are constantly boiling. Each rack is plunged for a moment or two into the hot oil and then set aside to drip, after which the fish are selected and carefully laid in tin boxes of various sizes.

When a box is full it is passed along to the oil-tap where the space remaining is filled with oil. The box is now ready to seal, und passes along to the solderer. After the soldering a hole is punched in the cover to let out imprisoned air, and immediately closed with solder. Next the cans are placed in a huge iron crate and lowered into tanks of boiling water. If there is still air in the can it will explode or bulge out, and the tromble can be corrected before the final packing in wooden boxes for export to all parts of the world.-Youth's Companion.

## Foot and Fathom.

THE "foot" is named from the length of that member in a fullegrown man. Some say that it was so called from the length of the foot of a certain English king, but it is believed to have been a standard of measurement among the ancient Egyptians. The cubit is from the Latin cubitus, an elbow, and is the distance from the elbow to the end of the middle finger. Fathom is from the Aryan fat, to extend, and denotes the distance from tip to tip of the fingers when the arms of an average-sized man are fully extended.



## Shopping Bag.

No self-respecting lady can be without a shopping bag in these days. If she has any regard for appearances, she will not carry a leather satchel like a traveling salesman, but some pretty combination of silk or velvet. The bag shown in the sketch is made of two colors of wide ribbon overhanded together until within six inches of the ends; these are then turned over to form the loops and stitched down, or


CONVENIENT sholiting bag.
basted and fastened with a row of featherstitching on the right side. A second row makes a place for the cord or ribbon to draw it up by. Remnants of fancy brocaded ribbons can often be found on the bargain counters and purchased for a trifle. Black ribbon, brocaded with ting rosebuds in old rose, with a centre stripe of old rose satin ribbon, makes a very handsome bag that can be worn with almost any costume.-American Agriculturist.

## A Needlebook and Emery Bag.

To make the needlebook, illustrated in Fig. 1 procure a piece of soft chamois skin five inches wide and seven inches long, twelve inches of light pink satin ribbon one and three-fourths


FIG. 1.
inches wide, and a piece of green satin ribbon of the sume dimensions. The ribbon is used to face the ends of the chamois, the extra length
being fringed out. It is then divided, on the inside, into little pockets by rows of featherstitching done in pink silk on the green ribbon and vice versa. The button-hole stitching around the edge is also done with silk. The leaves for the needles are made of pink and


$$
\text { FIG. } 2 .
$$

green flannel and button-hole stitched, care being taken to fasten them to the ribbon only so thit the pocket for the scissors can be reached. The strings and tassels are made of chamois, the tassels being formed by cutting one edge of a strip of chamois into slits, rolling it up tightly and fastening it to the string. Fig. 2 represents an emery bag made of pink ribbon and fastened to a piece of chamois on which has been teather-stitched green ribbon as described in the construction of the needlebook. The lettering on both the emery bag and needlebook are done in gilt, but may be dispensed if so de-sired.-American Agriculturist.

## A Kitchen Indicator.

A memor andum slate will be found very useful in the kitchen, and can bo made by procuring a slate the dimensions of which are seven and one-half by ten and one-half inches, and


## A HANDY SLATE.

pasting three strips of light brown paper on one side of it, as shown in the accompanying illustration. Print or write your household list on these, tie a nicely sharpened pencil at either of the right-hand corners so it will be ready for use, and when you think of a need, make a dash on the slate opposite the article. This is a nice little gift for boys to make.

## Hints to Housekeepers

Powdered borax, plentifully used, will exterminate cockroaches and water-bugs.

Bread crusts shonld be dricd in the oven and put away in paper bags until wanted for use.
Rusty black lace, which may have been long in the family, can be revived and made as fresh as new by the steam of green tea.
No hamper or other receptacle of soiled clothins, no matter how handsomely decorated, should be kept in a slceping apartment.

An ink splash on the carpet should be first washed out with milk, and cleaned up afterwards with warm and nice soapsuds.
If your oven is too hot you can cool it by putting in a dish of water. If it is too hot on the top, lift the lids which are uver the oven.
Put powdered or dissolved copperas down the sink and other drain pipes as ofteln as once a week, and flush them well on washing days.

For frost bites keep away from the fire and rub the parts affected with snow or ice water until thawed, then treat as you would a burn.

When the eyes are tired, or inflamed from loss of sleep, apply an old linen handlierchief dripping with water as hot as you can possilly bear it.
To throw water on burning kerosene only increases the danger by causing the oil to spread, but salt, flow, or cornmeal will quickly smother the flames.
To take ink out of linen dip the spotted parts immediately in pure melted tallow; then wash out the tallow and the ink will have disappeared.

In ordinary burns and scalds the only remedy required, is to thoroughly exclude the air from the injured part. Cotton batting will do this effectually.
Dish-water, which is always impregnated with more or less vegetable matter, should never be thrown on the surface of the ground at the back door.

Always keep the inside of your coffee pot bright to insure good coffee. Boil it out occasionally with soap, water and wood ashes and scour thoroughly.
A grease spot can be absorbed out of existence by frequent applications of magnesia or buckwheat flour, sprinkled on abundantly and brushed off afterwards.
To relieve pain from bruises, and prevent discoloration and subsequent stiffness, nothing is more efficacious than fomentations of water as hot as it can be borne.
There are few servants so thorough that you should not inspect the refrigerator daily to see that no liquids are spilled or food allowed to spoil and contaminate the rest.
If a bag of flax seed is put in water to soak, some time before using the water for washing varnished paint, it will be a great help to clean and keep the paint bright.
White sugar is an excellent application for cuts, wounds and bruises, quickly subduing inflammation. Salt pork, raw, is also good and in some cases easier to apply.
Cocoa Cream. - Beat to a stiff froth one pint of stiff cream; add to it three texspoonfulls of Epp's cocoa, and enough granulated sugar to sweeten. Eat with cake as a light dessert. Sponge cake is best for this purpose.
Stuffed Egg-Plant.-Wash the egg-plant, put in a kettle, cover with boiling water and boil until tender; take up, cutin half and scrape out the soft portion leaving the skin unbroken; mash the egr-plant fine, add butter, salt and pepper, mix well and put back in tho skin, sprinkle the top lightly with bread crumbs and put in the oven to brown.

## A CATS-PAW.



First Pussy.-You're no good, anyhow. I'll ret you can't jump upon that table and see what is in that piteher of cream.


Secord Pesse:Cant I, thengh :


Finse Pusser.-That cat certainly is a jay. It won't he any harm for me to help Bridget get this cream up off the carlet.

"The cobbler who posts a sign, "Shoes mended whife you wait," casts an myolumary reflection on
the prosyerity of all his customers.
Late revellers smging "There's no phace jike home arwayy stop there and crecp upstairs in their stocking feet.
Miss Whacker.-"Do you consider it a sirn of weakness in man to weep, Mr. Factor? Mr. Fac-
tor "That delends who playing the piano."
"Is Miss Penscratch trying to Win a name for herself?" Miss Glee aimost proposed to old Mr. Slie aimost prolose
Summer Landlord-" Well, how does the thermometer stand this moming stand, it lies, by about sifteen derrecs."
Robbins-" I 'm just back from Chicaro and-" Doublins-"Rcally, old fellow, I'm very sorry, but I'm
so tied up dinanclidy that I cun't so tien up imanceilly that I cau't


PATENT APPLIED FOR.
Tocmss.- What is your idea in working with the wire rope on? Nimes-It ain't my iden; it's my boss's-there's acircus in town!
"How is the talle at the beach this summer, Hicks?" "Sumeas it was last yeur. Fact is, judging' from the lread, I imagine some of it was left over from last year."
"John, what a lovely phace! If we could only manage to ralse the rent," Mr. Huater Howes-"Oh, 1 have no donbte the landlord would see that to that in a couple of months."
"We hear a great deal about the seven ages of man, but no one ever almades to the seven ages of woman-what is the reason?" "Gallautry, my hoy, grallautry."

Amonir the vain men whom we meet,
The vainest one of all
Is lie wholonasts of his little feet,
Mac-"That Miss Jumper is drealfully masculine in all her ways" "What doverhe do!" Ma-"Oh, I have
seen her get on the car lefore it stopred, without faling.

Man wauts hut little here below
While in this carthly school,
But while the weather's as it is,
He wants that little eool.
Deacon, Braper "Do you think it is sinful to marry for money", Rev. Mr. Thum- "It never ocenred to me so;
on the contrary, sometimes I have thought the fee was too on the
small.

JSeep cool: You'd leter let the world Har onward as it will,
Than stew and fret whtily you're sick
And piy a a loctor's hill.
Swizzle-"It's strange I meet Jones so rarely; How do


A MILLION OR TWO AHEAD OF HIM.
"I don't like to seen disrespect ful," said the world's fair visitor who was making his way up the stainway weanimg isn't another symare inch of space left vacait anywhere within reath.'
Aud he wrote his name legibly on the placard which announced in hig letters that anybody who defaced those walls hy writing on them would be arrested.

## HER IDEA OF IT

A woman arraigned in a Vienna latw court recently was asked by the judge if she had a cear character, The accused was silent. Then the judre, putting the question in it lecal punsshment?" "Yes," answered the defendint. "What wasit?" "I am married!" At thls judere, jury, and spectators allke liroke into irrepressille laughter.

## MODERN MUSIC.

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1. Page 9. "Adricme suddenly appeared, her face white Page 20. "The little fellow was trembling with a ilue rage,"


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