

THE Manitoba
Air-Cooled
Plumping Engine



Is a Marvel for Power!

Will pump any well up to 300 ft.
Will run any hand power machine
such as cream separator, churn,
fanning mill, grindstone, etc.
Guaranteed to start easy in winter
or summer.

Cannot Freeze up or Overheat
Has enclosed crank case, with
perfect splash lubrication.

A complete High Grade Power Plant
Weights only 225 lbs.
Sold under an absolute guarantee
to give satisfaction.

Write to-day for descriptive
literature and price.

We manufacture all sizes of Gasoline
Engines up to 25 h.p. If interested
in the large sizes, write for
complete catalog.

**The Manitoba Windmill and
Pump Co. Limited**
Brandon, Man., Calgary, Alta.



**What
a Dollar
or two
Will Do**

People
Everywhere are Getting the
"Painting Habit."

It is estimated this "habit" is saving
the people of Western Canada more than
a million dollars a year. Manufacturers
say Stephens' Paints have increased
the average life and usefulness of wagons
and farm tools at least three years. How
much is paint saving for you? Get a can of

Stephens'
Coach Paint

today and see the wonders it will work—it
will transform any shabby old sleigh or
buggy into a respectable and stylish vehicle.
Apply it yourself with satisfactory results.
Don't wait until things
are worn out, paint and
keep them new with the
paint that stands the wear
and tear.

Sold by leading dealers.
Write today for free book
of "Suggestions"—
for paint users.



Everything for the Painter
G.F. STEPHENS & CO. LIMITED
PAINT AND VARNISH MAKERS
WINNIPEG, CANADA
BRANCH AT CALGARY

over it. In this cut clover scatter the
chick feed. We use the commercial
chick feeds entirely and find them ex-
cellent for our purpose. Have a foun-
tain of fresh water at hand inside the
brooder. We find it an advantage to
have a piece of board, about seven or
eight inches square, to set the water
fountain on. Then the active little
chicks cannot scratch and kick the clover
into it. Keep a supply of fresh, cool
drinking water before them all the time.

Keep the brooders clean, especially un-
der the hover; this is where many slip
up. The youngsters do not foul the
brooder much the first week; but by the
time they are three or four weeks old
they foul it rapidly, and the brooders
should then be cleaned twice a week at
least.

Get the chicks out upon the grass
ground by the time they are a week
old—sooner if the weather is mild and
sunny. In letting them run out always
choose a bright, sunny day for their
first venture, and if there should be
some wind blowing see that they do not
bunch for warmth. Should they do
that, lift them into the brooder again,
and if there is much chill in the wind it
is better to shut them in for that day.

Young chicks should not have much
meat food, especially when they are on
a good grass range where they can glean
a worm or bug now and then. After
they are old enough to be put on free
range, they will take ten per cent. of

upon the same farm. In such cases the
commercial fertilizer used is usually a
so-called "complete" fertilizer, contain-
ing acid phosphate with a trace of nitro-
gen and potassium too small to add ap-
preciably to its value, and it is com-
monly applied in amounts which supply
less plant food than the crops actually
remove, the small amount of soluble
plant food applied being supplemented
by that which the soil would naturally
give up, together with what can be forced
from the soil by the stimulating ac-
tion of the soluble corrosive acid salts,
and manufactured land-plaster contain-
ed in such fertilizers.

Saving Farm Manure.

In order to retain the full amount
and full value of farm manure, it should
be removed directly from the stall or
covered feed lot and spread at once upon
the land. Manure may be allowed to
accumulate without much loss in deep
stalls for several weeks if plenty of ab-
sorbent bedding is used, and then it
may be hauled from the stall directly to
the field and spread.

It should be the rule never to handle
manure more than once. When taken
from the stable or feeding shed it
should be at once loaded on to the
spreader and hauled to the field. If
manure is produced at the rate of two
loads or more a week, the convenience
and importance of taking this manure
directly from the stable and spreading



their dry-mash mixture of meat-meal or
fine beef scrap. We begin giving them
this dry-mash mixture when they are
about a week old, keeping a small hop-
per of it before them in the brooder all
the time. When they are two weeks
old we begin putting a very little meat-
meal or fine beef scrap into the mash,
and gradually increase the quantity un-
til, at about eight weeks and after, the
proportion is about ten per cent.

About Farm Yard Manure.

Cyril T. Hopkins, of the University of
Illinois, in dealing with the question
of farm yard manure, writes as follows:

If fresh farm manure is thrown out
and exposed to the weather for six
months in summer, one half of its total
weight of dry matter is lost and more
than one-half of its value as a fertilizer
is lost. In most newer countries there
is enormous and shameful, if not wicked
waste of farm manure. In older coun-
tries it is the rule to save all possible
farm manure with very great care, al-
though this rule is too frequently broken
by the careless, ignorant, or short-
sighted.

As a whole, the unnecessary waste
and loss of farm manure which occurs
on this continent each year is equal in
value to several times the value of all
commercial fertilizers used. Sometimes
the waste of farm manure and the pur-
chase of commercial fertilizers occur

it at once upon the field will certainly
justify providing a manure spreader or
special wagon to be used solely for this
purpose

The Value of Manure.

Feed your land and it will feed your
live stock, and what the stock make
will feed and provide liberally in every
way for you and your household.

To illustrate this point, let us imagine
for a moment or two two farms in the
same neighborhood, the land of both of
medium quality and highly responsive
to intensive tillage and generous manur-
ing.

One is largely kept in permanent pas-
ture without manurial attention and the
other worked on a more or less extended
rotation, which includes a modern area
of green crops, the entire area of which
is liberally treated manurially each year.
When in grass it is judiciously top-
dressed with bulky manure, and when
it can be spared, or in its place, a com-
bination of artificial.

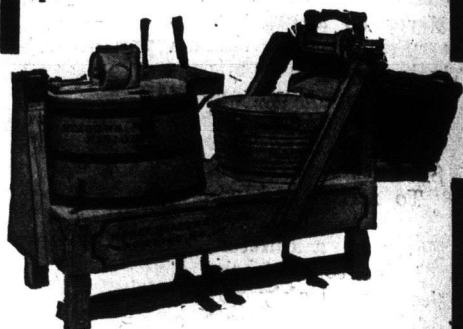
On the first, in the management of
which carelessness and apathy are too
apparent to pass unnoticed, the starved
grasses are barely able to keep a fair-
sized beast to an acre and a half, little
money is coming in, no matter how
large the farm may be, with everyone
on it discouraged by their surroundings,
and going about what work has to be
done in the most listless manner.

Meadows Power Washer

Washes 100 pieces in 10 minutes. Self
washer and wringer. You wash second
batch of clothes while blueing and
wringing first. Machine does all work
—no scrubbing—no backaches—the
"Meadows".

Does Week's Washing in 10 mins.

You sit by and watch. Small Power
operates. Special low price offer if you
write us to-day for free circular. Send
postcard now.



Canadian Swensons Co. Ltd
Lindsay Ontario
710 Chambers of Commerce, Winnipeg

Sandow \$37.50 2 1/2 H.P. Stationary Engine—Complete

Gives ample power for all farm
uses. Only three moving parts—
no cams, no gears, no valves—
can't get out of order. Perfect
governor—ideal cooling system.
Uses kerosene (coal oil), gaso-
line, alcohol, distillate or gas.
Sold on 15 days' trial. YOUR
MONEY BACK IF YOU
ARE NOT SATISFIED.
5-year ironclad guarantee. Sizes
2 1/2 to 20 H.P., at proportionate
prices, in stock, ready to ship.
Postal brings full particulars free.
Write for proposition on first en-
gine in your locality. (118)
Detroit Motor Car Supply Co.,
Detroit, Mich.

THE FENCE MAN DYER HE PAYS FREIGHT

Sells direct to buyers at factory prices.
Iron and Wire Fence, all styles; Gates;
barbed, coiled and plain wire; Staples;
fence hooks; tools. Special prices car
loads.

I save you big money, give you best
fencing and quick service with Western
warehouses. 17 years in Canadian fence
business. My printed matter ex-
plains my methods. Get it.
Write to-day.
DYER THE FENCEMAN TORONTO
Ask for Folder H

Lump Jaw

The first remedy to
cure Lump Jaw was
Fleming's Lump Jaw Cure
and it remains today the standard treat-
ment, with years of success back of it.
Known to be a cure and guaranteed to
cure. Don't experiment with substitutes
or imitations. Use it, no matter how old or
bad the case or what else you may have
tried—your money back if Fleming's Lump
Jaw Cure ever fails. Our fair plan of selling,
together with exhaustive information on
Lump Jaw and its treatment, is given in
Fleming's Vest-Pocket
Veterinary Adviser.
Most complete veterinary book ever printed
to be given away. Durable, bound, indexed
and illustrated. Write us for a free copy.
FLEMING BROS., Chemists,
63 Church St., Toronto, Ontario

HAWK BICYCLES
An up-to-date High Grade
Bicycle fitted with Roller Chain,
New Departure Coaster Brake
and Hubs, Detachable Tires,
high grade equipment, includ-
ing Mudguard, Pump, and Tools
\$22.50
Send for FREE 1912 Catalogue,
100 pages of Bicycles, Sundries
and Repair Material. You can
buy your supplies from us at
Wholesale Prices.
T. W. BOYD & SON,
27 Notre Dame St. West, Montreal.

