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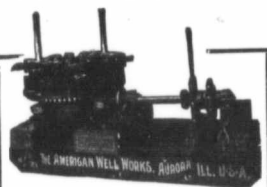
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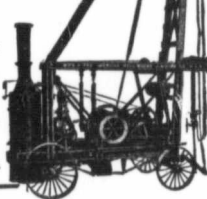
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BOOKLET AND DRAWING SHEET ON
APPLICATION

smut of wheat and loose smut of
oats, and the modified hot water
treatment, as used in the preven-
tion of loose smut of barley and
loose smut of wheat. Either one
of these treatments will prevent
the diseases for which they are in-
tended and largely eliminate all of
the ordinary fungous diseases
which are associated with cereal
seeds. The only methods which
are not in extensive use are the
copper sulphate method and the
formaldehyde method. The mod-
ified hot water method is now
recommended only for the preven-
tion of the loose smut of wheat and
the loose smut of barley, and to be
used in connection with the small
seed plot to clean the grain for the
following crop on the field areas.
The general use of the formalde-
hyde treatment in the ordinary
form will eliminate practically all
of the seed borne diseases of wheat,
oats and barley, with the exception
of the two types of smut named.
It will also destroy the spores of
most of the indefinite fungous
diseases of mould-like types, such
as blight, root-rot, etc.

It is possible that the modified
hot water treatment will be found
to be of wider importance than
simply the elimination of the loose
smut of wheat and the loose smut
of barley, for numerous experi-
ments conducted at this station
show that these are not the only
types of cereal diseases which are
born internally in the seed.

SWELLING OF SEED: In
all of these methods of treatment
the various types of grain are apt
to be swelled considerably. The
person doing the treatment should
therefore learn how much the grain
has swelled and set the drill to sow
a quantity sufficiently in excess of
that which he usually uses to offset
the swelling.

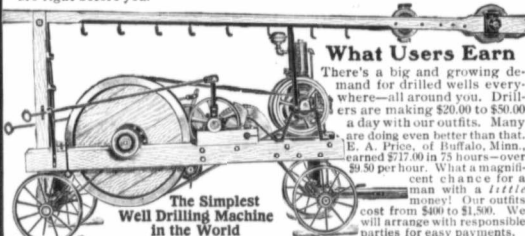
MACHINERY FOR SEED TREATMENT OR SEED DISINFECTION.

Since the development of the
various methods of seed disinfection,
and especially since the
development of the formaldehyde
treatment, there have been invent-
ed many types of machines espe-
cially constructed for the purpose of
dipping the seed grain. The formal-
dehyde treatment for general
seed disinfection only demands that
each of the seeds of the seed grain
shall be evenly moistened over the
entire exterior surface. It is not
intended, however, that it will be
sufficiently moist to wet up the
bran covering and thoroughly
moisten the hairs or brushes on
the wheat, and that it shall be
sufficiently applied to oats, barley,
millet, etc., to moisten the chaff or
scales enclosing the grains, both
inside and out. We have introduc-
ed in this bulletin sketches or cuts
illustrating a number of various
types of machines that are now in
use, not for the purpose of adver-
tising any particular machine, but
simply to call attention to the fact
that there are machines on the
market well constructed for the
purpose of disinfecting seed grain.
Each farmer should study the
various types of machines carefully
and upon visiting the machinery
houses decide upon the one which
is most apt to suit his needs. Some
of the machines are so constructed

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and ease of operation. One man can set up and operate this wonderful well-
drilling machine, even to the raising and lowering of the mast. Three handy
levers complete every operation. There's no chance of failure. Big profits
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mand for drilled wells every-
where—all around you. Drill-
ers are making \$20.00 to \$50.00
a day with our outfits. Many
are doing even better than that.
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29.50 per hour. What a magni-
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man with a little
money! Our outfits
cost from \$100 to \$1,500. We
will arrange with responsible
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