

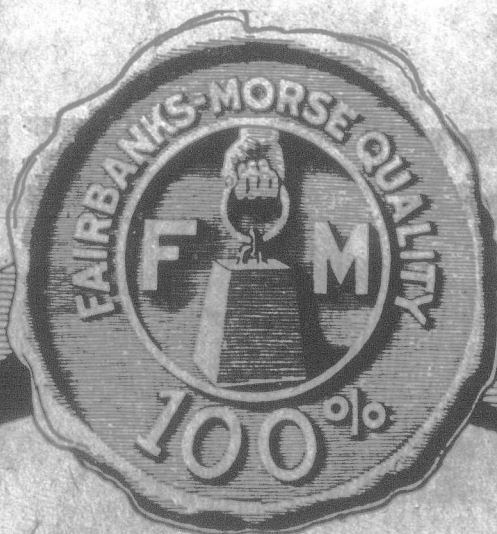
Department.

Illusions Regarding Buds and Twigs

W. HOFFER, M.A.
seems to be a general opinion
that the bud scales and
coverings, such as found inside
of the horse-chestnut, are too
delicate bud warm. A little
winter conditions would soon
be of how entirely inadequate
as a covering, are to keep out
winter weather. How would
stay out all winter exposed
weather" with such a scant
as scales afford? The best
do is perhaps to protect the
from too rapid a rise or fall
ure. The real function is to
young delicate shoot from
uch water, and from mechan-
The air of winter is much
that of spring and summer,
ly plants must protect them-
st this cold, dry air of winter,
ically places the plant under
itions. At the same time the
almost entirely retards root
and also water-raising forces
minimum. Thus, bud scales
against evaporation during a
n the plant cannot afford to
re from its dormant growing
ture prevents the drying
gs by bud scales and the
f resin between the scales

A Beauty Spot.

general belief is that the
ling" of trees and shrubs
freezing. Cold in freezing,
only indirectly the cause of
the real cause is the abstraction
m the cell by the ice crystals
the intercellular spaces." These
of course, are formed from
content of the cell itself,
om the cell, and consequently
is reduced below the danger
hat cell, and death ensues.
n has shown that, on freezing,
rms within a cell, but rather in
etween cells, and that freezing
ture the tissue or cell wall as
se. Hence freezing is, in reality,
ocess; and dryness is the real
eath in winter-killing, and
Have you ever noticed how
re during the winter months
ith that of other seasons?
error is common regarding
ion of woody plants. They
ht only by the growth of new
the stem which start out
g season from the terminal
winter buds. Consequently
ce formed on a tree remain
istance apart and the same
m the ground year after year.
hence come the trees with
limbless trunks? This is an
orest trees due to the dying
lower branches, and not to
tion of the length of any
wth. The growth goes on in
ut not in length. Compare
e forest with one of the same
the open field where it is
flood of light. The difference
presence of abundant sun-
open field, and the shaded
which prevails in the forest.



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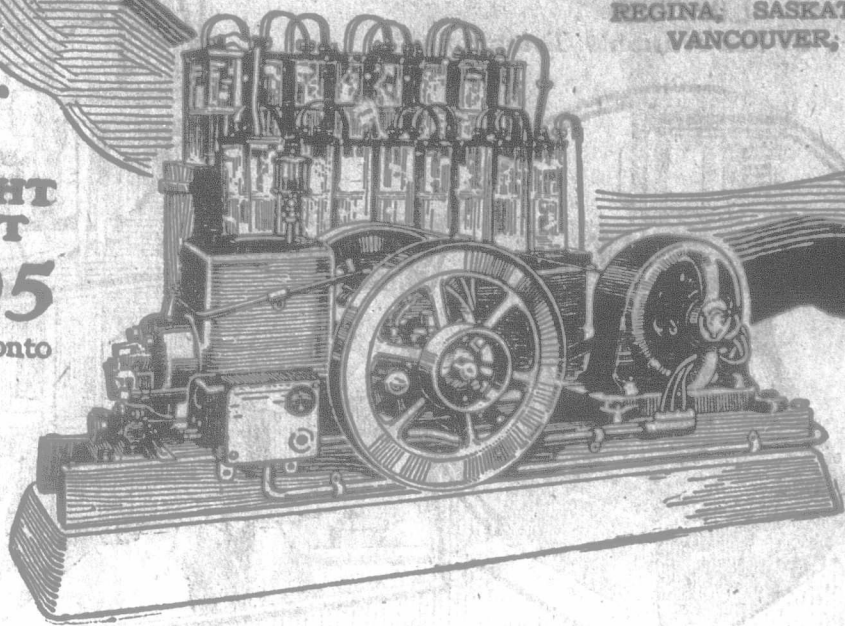
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