perature for drying is therefore the highest which can be employ-

ed without danger of injury in either of these ways, since the

drying will thus be made most rapid. What this highest possible temperature may be is determined

in the case of any particular fruit

or vegetable by its physical structure, chemical composition,

and water content. As the different fruits and vegetables show

very wide variations in these re-

spects, there is no single best temperature for general use with

the various products; heat treatment which would be perfectly

safe with potatoes or carrots

would be utterly ruinous if ap-

plied to such fruits as raspberries

and peaches. For this reason it

has been necessary to determine experimentally for each of the

different materials the range of

temperatures which may be em-

ployed without injury. These are

given on subsequent pages. The

operator of a drier should be provided with a dependable, accurate thermometer which should be placed in the drier and kept under

frequent observation, as any attempt to trust to inexperienced

judgment as to temperatures in

the drier is likely to result in

In drying any food material it

is absolutely indispensable that

provision be made for the prompt

removal of moisture from the ap-

partus by a constant inflow of air.

The reason is obvious; if the ma-

terial be placed in a closed box

and heated the confined air will

very quickly become saturated

and no more water can escape

from the material. If the heating

is continued, the material will

literally be cooked in its own

juices, since the water content of

the products which we dry ranges

from seven-tenths to more than

nine-tepths of their total weight.

Therefore, a drier can be efficient

only in the degree that its con-

damage to the material.

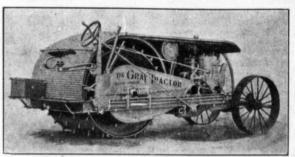
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struction provides for constant removal of the moisture given off by its contents.

Success in drying, therefore, depends upon the stopping by suitable means of the series of changes which begin as soon as the material is cut into pieces and exposed to the air, the employment of a temperature sufficiently high to prevent the growth of organisms-yet not so high as to produce the bursting of cells and loss of juices in fresh material or the scorching of that which has lost most of its water-and the provision of an adequate circulation of air for the prompt removal of the water vapor given off. Simple as these principles are, they have been discussed at length for the reason that most. failures or poor results are due to the neglect of one or more of them (Contd. next month)



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