FOR many years there has been a recognized need for an implement suitable for the cultivation of putting greens, and many attempts have been made to produce such an implement. These attempts have met with success in varying degrees, due chiefly to the fact that the usual implements have not been capable of penetrating the soil to a sufficient depth to give the desired results without tearing up the turf to such an extent as to mar and injure temporarily the smooth surface required of these areas.

It is important that the compact surface layer of putting greens resulting from the constant trampling by players and workmen, be perforated at frequent intervals in order to permit the entry of water, air and plant food to the soil which contains the feeding roots of the grass, and to allow the escape of gases which form underneath this layer. The importance of a deep root system is generally appreciated in turf maintenance but if this practically impervious layer is not opened up occasionally so as to permit these necessary elements to get down into the soil that must support these roots, it is impossible for the grass to develop a strong healthy deep root system, and to accomplish this successfully deep penetration is necessary.

The Columbian Greens Perforator is designed and built especially for this work. This machine weighs approximately 300 lbs. It is equipped with two handles so that it may be drawn back and forth across the green without the necessity of turning. It requires two men for efficient operation.

It covers a swath of about one foot at each trip across the green and it requires approximately one hour to perforate an average size green. It is equipped with a transport carriage which lifts the knives clear of the ground for turning and moving from one job to another. It is equipped with eight independent oscillative members which contain the perforating knives and which are removable or interchangeable.

In the standard equipped machine each of these members contains 10 knives (two rows of five each). The machine may be had, however, with 21 knives in each member (three rows of seven each), or if desired it may be had with both sets which may be interchanged to suit the particular need for different conditions encountered. If the greens are very hard the units with 10 knives will be most satisfactory as they penetrate deeper, but in case of fairly soft greens the 21 knives will do a more complete job. The knife-like perforating instruments are so shaped as to facilitate penetration with a minimum of pressure and withdrawal with a minimum of draft, thereby minimizing the weight necessary.
for deep penetration as well as the man-
power required for efficient operation.

It is possible with this implement to
perforate putting greens to a depth of two
and one-half inches without disturbing to
any appreciable extent the smooth surface
required of these areas, say its makers,
who add that the feat is impossible with
the ordinary spiked roller of the fixed spike
type. This is made possible by the oscil-
lative members in which the knives are set.
These units, by their oscillative motion,
allow the spikes or knives to enter the turf
in a practically perpendicular position and
as the central unit passes over this knife-
bearing unit the knives are forced their
full depth into the ground and then with-
drawn in this same perpendicular position
thereby preventing the usual lever action
which picks up the turf and roughens the
surface.

Fee Courses Ask for Some Answers
(Continued from page 49)

buildings, as well as the purchase of con-
siderable first-class course maintenance
equipment.

9. The best method of handling capacity
play is to have the starter arrange four-
somes at four-minute teeing-off intervals.
Occasionally when people are holding up
foursomes it is advisable to have course
rangers ask the dilatory ones to permit
others to play through. Reservations are
made either at the starting tee or at some
convenient point downtown for Saturday,
Sunday and holiday starting times.

About the only tough part of this mu-
nicipal golf course operation is that some
of the starters indulge in petty graft in
allotting starting time preference. How-
ever, I would say as a general thing, the

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Steamers leave Providence, 7:30 P. M. (DST)
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Every spec is good food and humus.
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ground until it is used—does not leach
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