July 2, 1940.

A. E. FINLEY

2,206,349

TAMPING ROLLER TOOTH

Filed July 22, 1939

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Fig. 2.

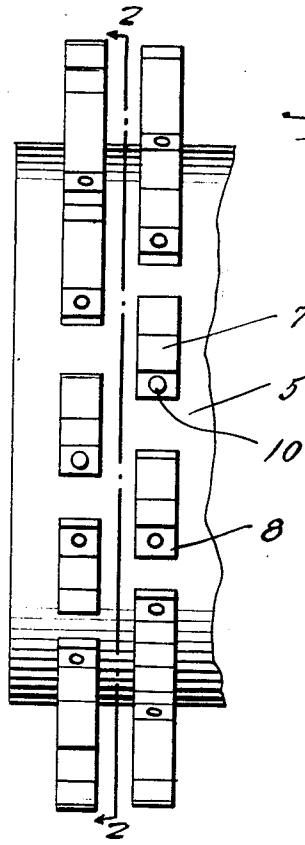
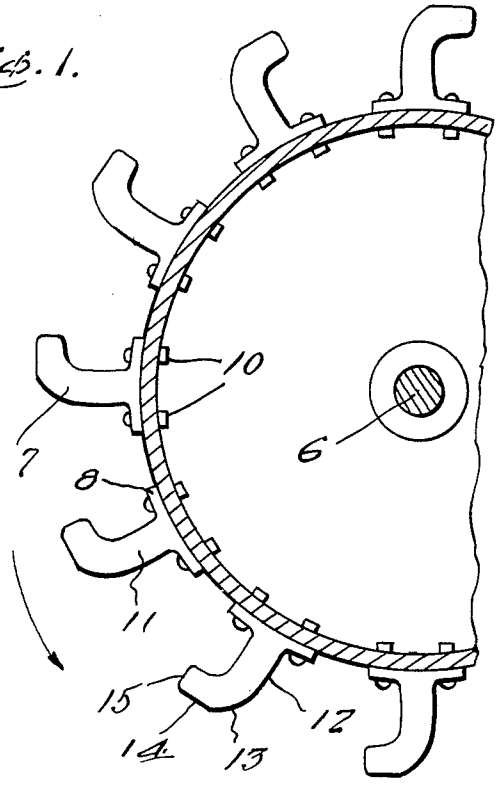


Fig. 1.



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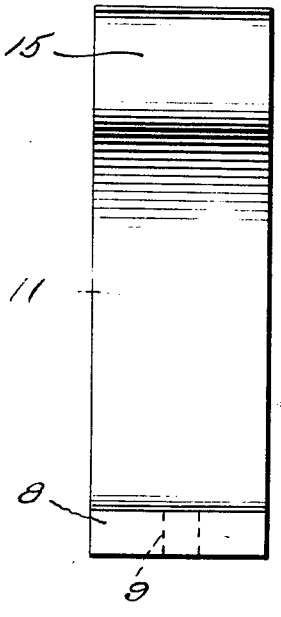
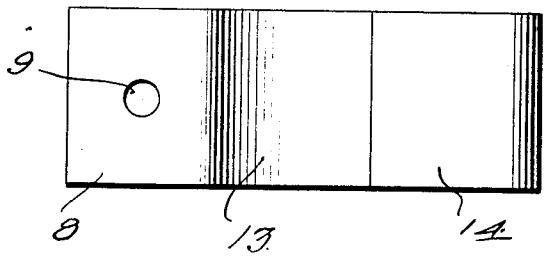


Fig. 4.

Fig. 3.



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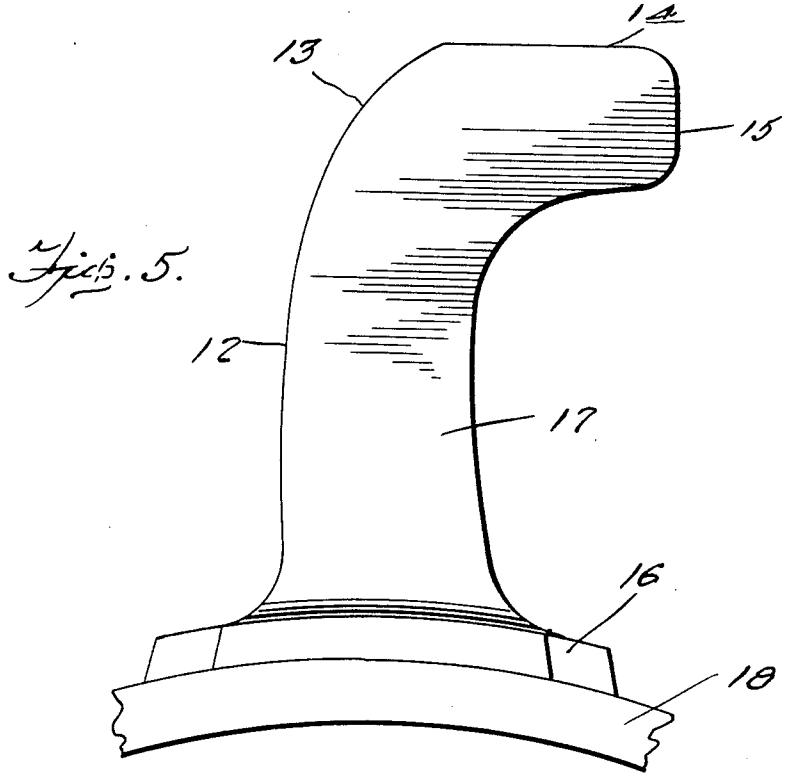


Fig. 5.

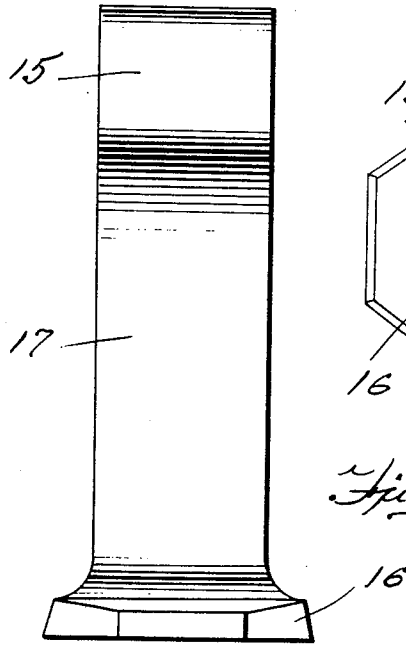
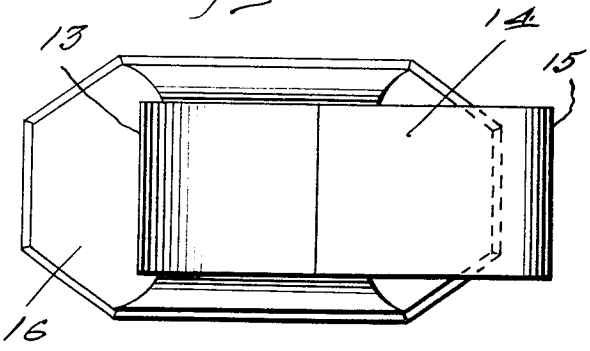


Fig. 7.

Fig. 6.



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UNITED STATES PATENT OFFICE

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TAMPING ROLLER TOOTH

Albert E. Finley, Raleigh, N. C.

Application July 22, 1939, Serial No. 285,992

4 Claims. (Cl. 55—24)

The present invention relates to tamping rollers, and has particular reference to the tooth construction of the roller adapted to penetrate and pack the ground below the surface.

In the present type of tamping rollers, the teeth have a tendency to kick the soil and to pick the same up and throw the soil as the teeth leave the ground thus interfering with the efficient packing thereof and it is an important object of the present invention to provide a curved tooth construction which eliminates this tendency to kick or throw up the soil as the teeth leave the ground.

A further object is to provide a tooth construction for tamping rollers which is efficient and practical in use, relatively inexpensive to manufacture and secure in position to the tamping roller and which is otherwise well adapted for the urposes for which the same is intended.

Other objects and advantages reside in the details of construction as more fully hereinafter described and claimed, reference being had to the accompanying drawings, forming part hereof, wherein like numerals refer to like parts throughout and in which

Figure 1 is a fragmentary plan view of a tamping roller embodying the tooth construction forming the subject of the present invention.

Figure 2 is a transverse sectional view through the roller taken substantially on the line 2—2 of Figure 1.

Figure 3 is a top plan view of the tooth.

Figure 4 is a rear elevational view thereof.

Figure 5 is a side elevational view.

Figure 6 is a top plan view embodying a modified base for the tooth to weld the same in position on the roller, and

Figure 7 is an edge elevational view thereof.

Referring now to the drawings in detail and with particular reference to the form of the invention illustrated in Figures 1 to 4, inclusive, the numeral 5 designates the tamping roller which is of cylindrical form and mounted on a shaft or trunnion 6 in a suitable manner to be rolled over the ground to be treated.

Projecting radially from the drum or roller is a plurality of teeth, designated generally at 7, the teeth being preferably arranged in staggered relation, as shown in Figure 1 of the drawings, and embodies a base 8 having bolt holes 9 formed therein for accommodating the bolts 10 for attaching the base to the surface of the roller.

Projecting radially outwardly from the base 8 is the leg portion 11 of the tooth which is curved slightly rearwardly with respect to the direction of travel of the roller, as indicated at 12, the leading edge of the leg terminating at its outer end in a curved heel portion 13, merging with a flat foot portion 14 which extends rearwardly to form a toe portion 15.

Accordingly when the roller is rotated in the direction as shown by the arrow in Figure 2 of the drawings the curved heel portion 13 will first enter the ground and the rearwardly curved formation of the foot portion will enable the tooth to leave the ground without picking up or kicking the dirt as the same leaves the ground.

In the form of the invention illustrated in Figures 5 to 7, inclusive, the base 16 extends outwardly from all sides of the tooth 17 and is adapted to be welded or otherwise permanently secured to the roller 18.

It will be understood that the tooth may be of polygonal form in cross section, as illustrated in the drawings, or the same may be of generally rounded cross sectional form, if preferred.

It is believed the details of construction, advantages and manner of use of the article will be readily understood from the foregoing without further detailed explanation.

Having thus described the invention, what I claim is:

1. A tooth for tamping rollers comprising a leg portion projecting radially from the roller, and a foot portion at the outer end of said leg portion, said leg portion and foot portion being curved in a direction rearwardly with respect to the direction of travel of the roller and said foot portion having a flat tamping surface.

2. A tooth for tamping rollers comprising a base portion adapted for attaching to the surface of the roller, a leg projecting radially from the roller and curved longitudinally in a direction rearwardly with respect to the direction of travel of the roller, a foot portion at the outer end of said leg portion, said foot portion at its leading edge being also curved in an arc in excess of the curvature of the leg portion, and a trailing rounded extension at the rear end of said foot portion.

3. A tooth for tamping rollers comprising a base portion adapted for attaching to the surface of the roller, a leg portion projecting radially from the base, and a foot portion at the end of the leg portion and projecting rearwardly with respect to the direction of travel of the roller, the longitudinal edges of said leg portion being curved rearwardly and the front and rear

edges of said foot portion being rounded and having a flat tamping surface.

4. A tooth for tamping rollers comprising a base portion adapted for attaching to the surface of the roller, a leg portion projecting radially from the base, and a foot portion at the end of the leg portion and projecting rearwardly with respect to the direction of travel of the roller, the longitudinal edges of said leg portion being curved rearwardly and said foot portion having a flat outer tamping surface and rounded at its front and rear edges.

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