

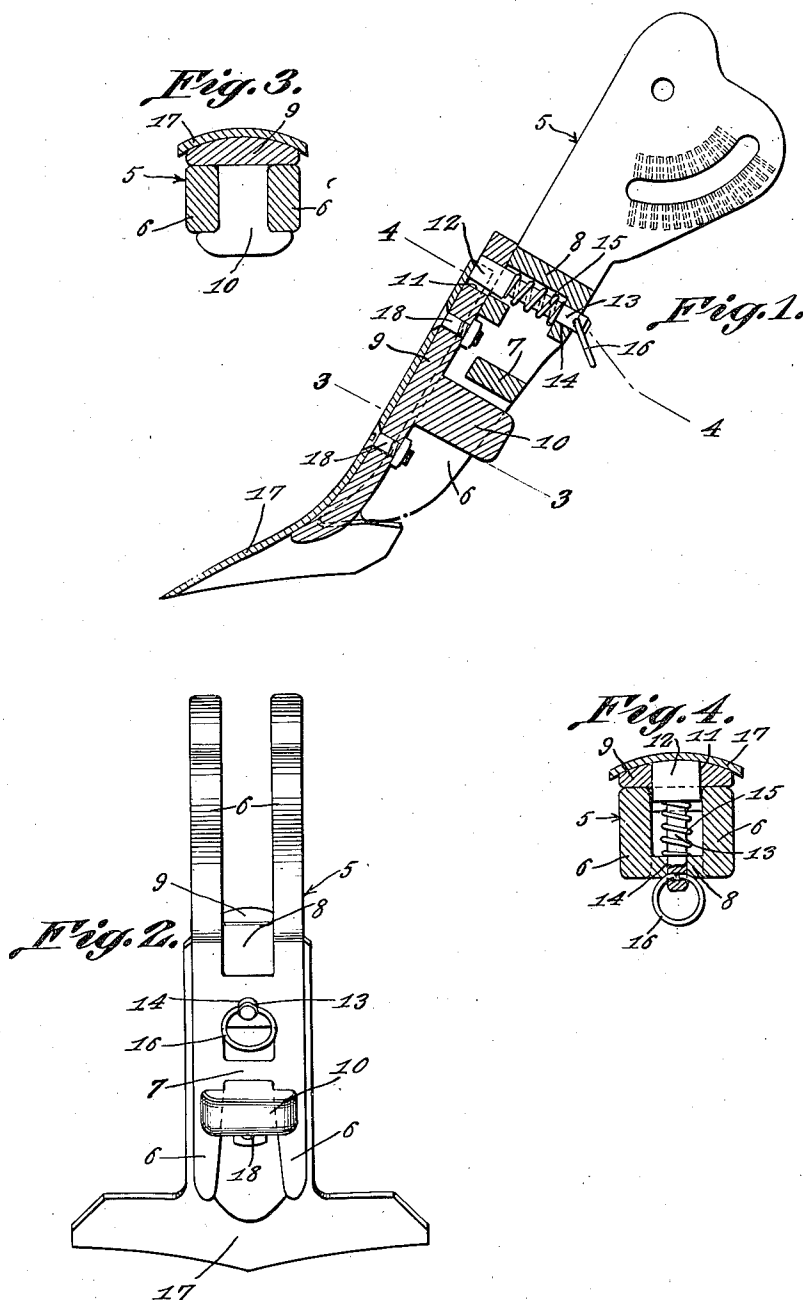
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AGRICULTURAL IMPLEMENT

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AGRICULTURAL IMPLEMENT

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2 Claims. (Cl. 97—198)

My invention relates to agricultural implements and more particularly to the shovel or sweep supporting feet of cultivators.

One of the principal objects of my invention is to provide a cultivator foot so constructed and arranged whereby the shovels or sweeps may be quickly and conveniently attached and detached therefrom.

Another object of my invention is to provide a device of the above described character which is simple in construction, durable in use, efficient in operation and economical in manufacture.

Other objects and advantages will be apparent from the following description, appended claims and annexed drawing.

Referring to the drawing wherein like reference characters designate like parts throughout the several views:

Figure 1 is a vertical sectional view of my novel form of cultivator foot.

Figure 2 is a rear elevation thereof.

Figure 3 is a detail sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a detail sectional view taken on the line 4—4 of Figure 1 and illustrating the latch mechanism.

In practicing my invention I provide a cultivator foot 5 having an upper end adapted to be adjustably connected to a beam (not shown), said foot being of a bifurcated construction defining a pair of spaced sections 6 integrally connected together by means of longitudinally spaced transverse bridge portions 7 and 8. Secured transversely across the outer faces of the sections 6 at their lower ends is a shoe 9, the latter having an inner face engaging said outer faces of said sections as clearly illustrated in the drawing. The inner face of the shoe 9 is formed with a rearwardly disposed section 10 extending between the sections 6 and terminating in laterally disposed flanges overlying the inner face of the sections 6 whereby to secure the shoe to the foot against forward and rearward movement. The upper end of the shoe 9 is formed with a slot 11 receiving therein the projected end of a latch bolt 12, the inner end of which extends through a slot formed in the front bridge portion 8. The latch bolt 12 is formed with a cylindrical-shaped section 13 extending rearwardly therethrough and slidably disposed in an opening 14 formed in the rear bridge portion 8.

Sleeved about the section 13 is a coil spring 15 having one end engaging the rear bridge portion 8 and the opposite end engaging the bolt 12 as clearly illustrated in Figures 1 and 4 of the

drawing. Obviously, the spring serves to urge the latch bolt 12 into projected position. The rear end of the section 13 is equipped with a finger piece or ring 16 for effecting retracting of the latch bolt and limiting the projected position thereof. The lower ends of the sections 6 are of a tapered configuration whereby to permit ready detachment of the shoe downwardly therefrom upon operation of the latch bolt 12 to retracted position. The front face of the shoe 9 has secured thereto a cultivator sweep or shovel 17, the latter being secured to said shoe by means of bolts and nuts 18.

From the foregoing it will be apparent that the shoe and sweep may be readily removed from the foot upon operation of the latch bolt for replacement or for substituting a similar cultivating device.

Without further elaboration, the foregoing will so fully explain the invention that others may, by applying current knowledge, readily adapt the same for use under various conditions of service. Moreover, it is not indispensable that all the features of the invention be used conjointly since they may be employed advantageously in various combinations and sub-combinations.

It is obvious that the invention is not confined to the herein described use therefor as it may be utilized for any purpose to which it is adaptable. It is therefore to be understood that the invention is not limited to the specific construction as illustrated and described, as the same is only illustrative of the principles of operation, which are capable of extended application in various forms, and that the invention comprehends all construction within the scope of the appended claims.

What I claim is:

1. In an agricultural implement, an implement carrying shoe having an elongated body provided with a latch slot, a projection extending rearwardly from the shoe body having oppositely directed flanges at the outer end, a foot member including a pair of longitudinally extending sections connected at intermediate portions by transverse bridge forming webs, the lower parts of the said foot sections having an increasing taper from the lower end to tightly engage the projection on the shoe section and the flanges thereon when the said shoe projection is slid into fully assembled position, a transversely slidable latch mounted on one of the bridge webs, and spring means on the said latch adapted to yieldingly force one end of the latch into the shoe slot to releasably lock the shoe on the foot.

2. In a cultivator device of the character described, a shoe having a latch receiving slot, a flanged projection extending rearwardly from the shoe, a foot member for supporting the shoe having a bifurcated portion at one end and adapted to slidably receive the flanged shoe projection therein, a bridge on the foot having an opening therein, a latch bolt mounted transversely on the foot having its inner portion slid-

ably extended through the opening in the said bridge piece, a compression spring sleeved about the bolt and adapted to yieldingly urge the outer end portion thereof to projected position to engage the slot in the shoe, and an element attached to the inner end of the bolt for manually retracting the same against the action of the spring to shoe releasing position.

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