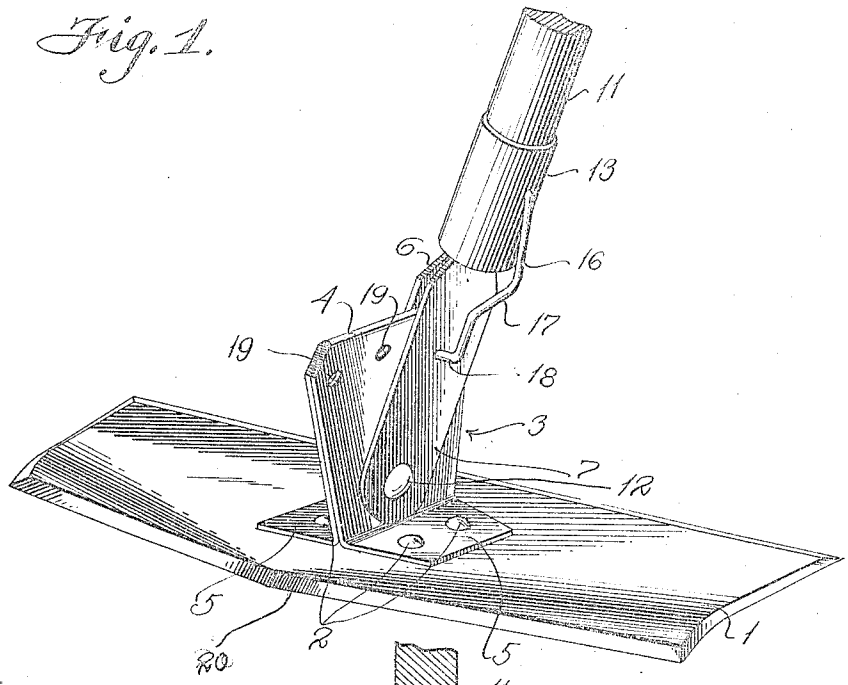
D. A. POTTORF.

ADJUSTABLE HOE.

APPLICATION FILED APR. 17, 1916.

1,210,100. Patented Dec. 26, 1916.

Fig. 1.



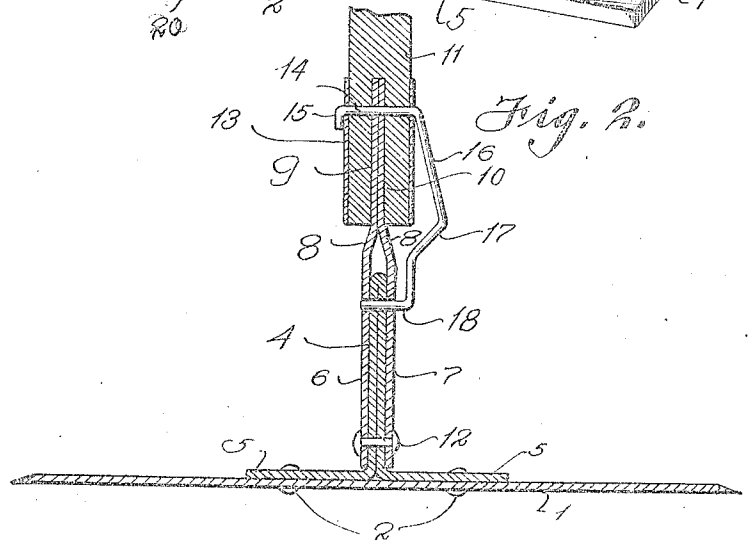


Fig. 2.

WITNESSES

R. E. Spaulding.

INVENTOR

David A. Pottorf,

BY

Richards & Geier,

ATTORNEY

UNITED STATES PATENT OFFICE.

DANIEL ALBERT POTTORF, OF MILTON, OREGON.

ADJUSTABLE HOE.

1,210,100. Specification of Letters Patent. Patented Dec. 26, 1916.

Application filed April 17, 1916. Serial No. 91,729.

To all whom it may concern:

Be it known that I, DANIEL A. POTTORF, a citizen of the United States, residing at Milton, in the county of Umatilla and State of Oregon, have invented certain new and useful Improvements in Adjustable Hoes, of which the following is a specification.

This invention relates to improvements in adjustable hoes, particularly of that type wherein adjustment in the angular relatively between the hoe blade and the handle is desirable.

One object of the present invention is to provide a four edge adjustable hoe of the above mentioned character which will permit of ready adjustment between the handle and blade and is comparatively simple in construction and consequently economical to manufacture.

Another object of the invention resides in the particular adjusting means which is in combination with the handle of the hoe and acts to secure the handle, ferrule and shank in fixed relation with each other and has a free end which forms the member permitting adjustment and may be moved for engagement in any adjusted position.

With the above and other objects in view, I will now proceed to describe a specific embodiment of the present invention with particular reference to the accompanying drawings in which I have shown the same.

In the drawings, Figure 1 is a view, in perspective, of a hoe constructed according to my invention. Fig. 2 is a transverse section of the hoe shown in Fig. 1 but with the handle in the straight position perpendicular to the hoe blade.

In detail, the hoe, as shown, comprises a blade 1 having suitable edges which may be beveled as shown. The hoe 1 has secured thereto by rivets or the like 2 a flange member 3 which comprises a piece of metal bent double on itself to provide a protruding flange 4 and the lower ends of said piece of metal being bent outwardly in opposite directions to provide securing members 5 through which the rivets 2 pass or the members 5 may be welded to the blade 1. Disposed on either side of the flange 4 are members 6 and 7 which converge as shown at 8 and meet in the shank 9 which extends within a bore 10 of a handle 11. The members 6 and 7 are pivoted to the flange 4 as shown at 12 by means of a rivet, bolt or the like. On the lower end of the handle 11 is disposed a ferrule 13 and a hole is drilled through the ferrule, handle and the end 9 of the shank. Through this hole a spring wire 14 passes having one end turned over as shown at 15 to insure the wire being fixed in place. This wire serves to hold the ferrule, handle and shank in the requisite fixed position relative to each other. The other end of the wire is bent downwardly to form an arm 16 thence inwardly at 17 and at right angles as shown at 18 to provide an engaging end. The flange 4 is provided with a series of apertures 19 which are radially disposed with respect to the pivot 12 of the shank. The shank portions 6 and 7 are apertured and therefore as the handle 11 is moved, the portion 18 of the spring arm 17 may be projected through the apertures in the parts 6 and 7 and through any one of the apertures 19 thus holding the handle and shank in a fixed adjusted position relative to the hoe blade.

While, in the foregoing, I have shown a specific embodiment of the present invention, it is nevertheless to be understood that, in practice, I may resort to such practical modifications as fall within the scope of the appended claims.

I claim:

1. In combination, a hoe blade having an attaching flange, a shank pivotally secured thereto, said flange having a series of apertures radially disposed with respect to the pivotal point of said shank, a handle having a ferrule and having one end receiving a part of said shank, and means holding said shank, handle and ferrule in fixed relation relative to each other and having an end for engagement with any one of said apertures to hold said handle and shank in an adjusted position relative to said blade.

2. In combination, a hoe blade, an attaching flange comprising a piece of metal bent double and thence outwardly on either side and secured to said hoe blade, a shank comprising an arm disposed on either side of said flange and pivoted thereto, said flange having a series of apertures radially

disposed with respect to the pivotal point of said shank, a handle having a ferrule and having one end receiving a part of said shank, and means holding said shank, handle and ferrule in fixed relation relative to each other and having one end extending through the shank and its other end positioned for engagement with any one of said apertures to hold said handle and shank in an adjusted position relative to said blade.

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL ALBERT POTTORF.

Witnesses:
A. J. P. PLANT,
G. A. COWL.