No. 671,677. Patented Apr. 9, 1901.

J. KILLEFER.

CLAMP OR FASTENING FOR CULTIVATOR TEETH.

(Application filed Sept. 14, 1900.)

(No Model.)

Fig. 1.

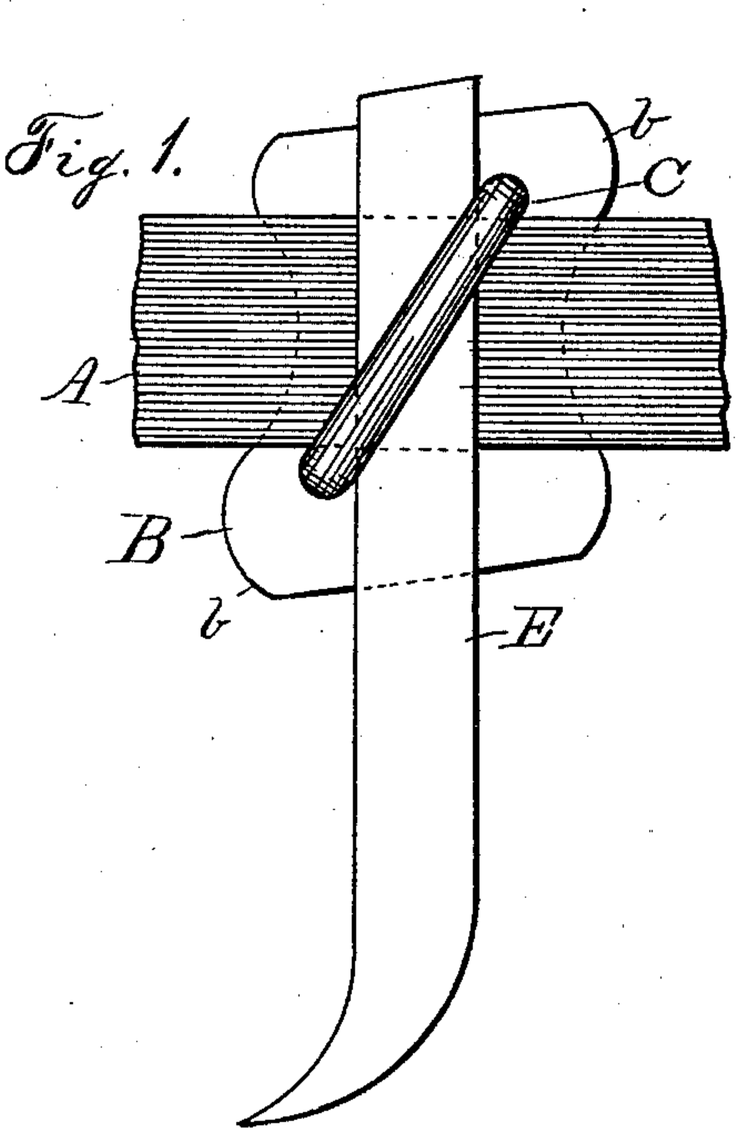


Fig. 2.

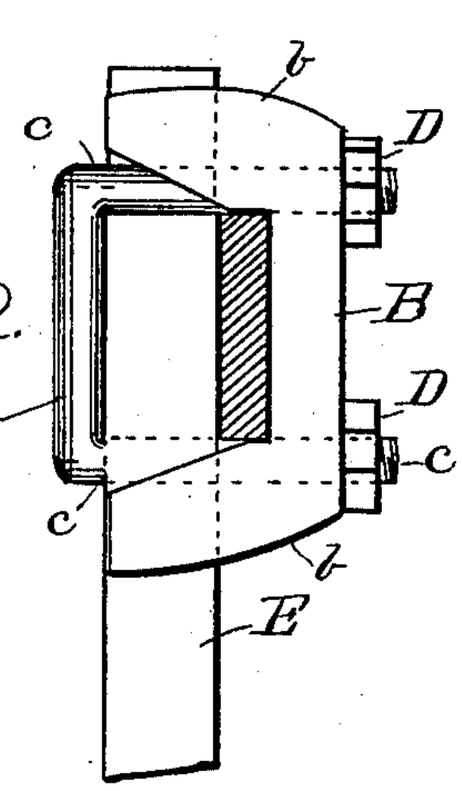


Fig. 3.

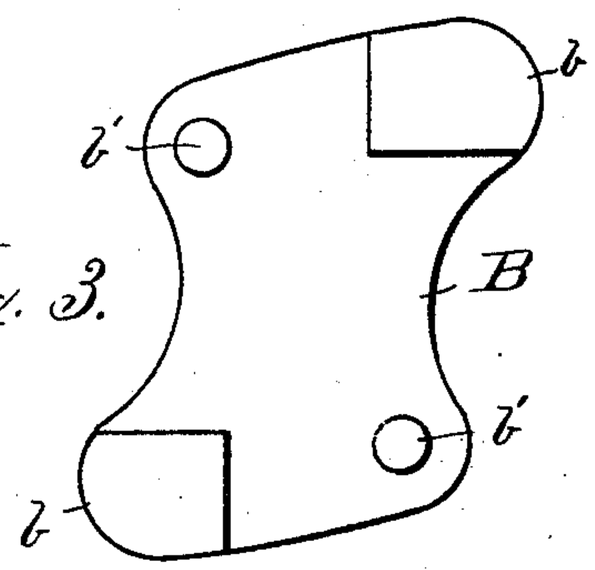
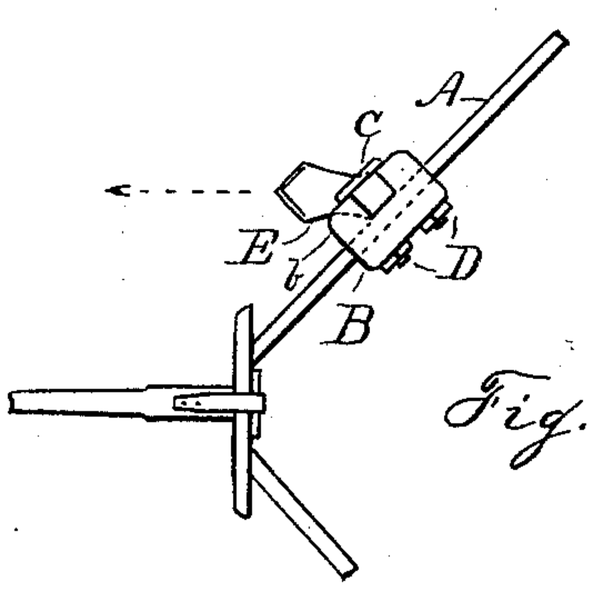


Fig. 4.



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CLAMP OR FASTENING FOR CULTIVATOR-TEETH.

SPECIFICATION forming part of Letters Patent No. 671,677, dated April 9, 1901.

Application filed September 14, 1900. Serial No. 30,040. (No model.)

To all whom it may concern:

Be it known that I, JOHN KILLEFER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Clamps or Fastenings for Cultivator-Teeth; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention relates to means for securing the tooth of a cultivator to the steel frame thereof, so that it may be conveniently adjusted vertically and the line of draft kept in a diagonal plane of the tooth-shank, the front of frame being on an angle of about forty-five degrees.

My invention consists of a tooth-clamp formed of a body, a clip, and two nuts, the construction of said body being peculiar and of such a character as not to weaken the steel frame in any way whatever.

Figure 1 of the drawings is a side elevation of the invention. Fig. 2 is an edge elevation of the same. Fig. 3 is a plan of a modified body of the device. Fig. 4 is a reduced plan of part of a cultivator with the device in position.

In the drawings, A represents the steel frame of the cultivator, which is V-shaped at front and rear, while the front and rear angle are bisected by the line of draft. A parallel plane to that of the draft must pass diagonally through each tooth of the cultivator.

B is the body of the clamp, which is provided with the shoulders *b b* and the two clip-holes *b' b'*, arranged diagonally with respect to each other. The body B of the clamp is fitted on the bar of the frame, so that the latter will pass through the former between the shoulders, the said body B being made to fit snugly on the bar of frame. The clip C is then placed diagonally over the tooth, whose rectangular form fits nicely between the two shoulders *b b*, and its arms *c c*, right angled and end threaded, pass through the body-holes *b' b'*. The nuts D are then screwed upon the ends of the clip-arms and the tooth E is securely fastened to the frame A. It will be readily seen that the tooth can be easily adjusted to project more or less below the frame, while the latter is marred or weakened in no way whatever.

Having thus described all that is necessary to a full understanding of my invention, what I claim as new, and desire to protect by Letters Patent, is—

1. A coupling for cultivator or harrow teeth combined with the cultivator or harrow frame the said coupling being placed on the opposite side of the frame to that on which the tooth is placed and having lugs that extend over the frame to engage the tooth; whereby both the tooth and coupling are secured to the frame by one piece, clip or plate and a V-shaped bolt substantially as shown and described.

2. A tooth-fastening for harrows or cultivators provided with two diagonally-arranged lugs and two diagonally-arranged holes, each lug being in the same horizontal plane as one of the holes, the top hole being arranged behind the tooth and the bottom hole in front of it, all substantially as shown and described, for the purpose set forth.

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

JOHN KILLEFER.

Witnesses:
J. W. WHAUN,
GUS KROEGER.