

No. 791,758.

PATENTED JUNE 6, 1905.

H. S. EARLE.  
SCYTHE SNATH FASTENING.  
APPLICATION FILED MAR. 10, 1902.

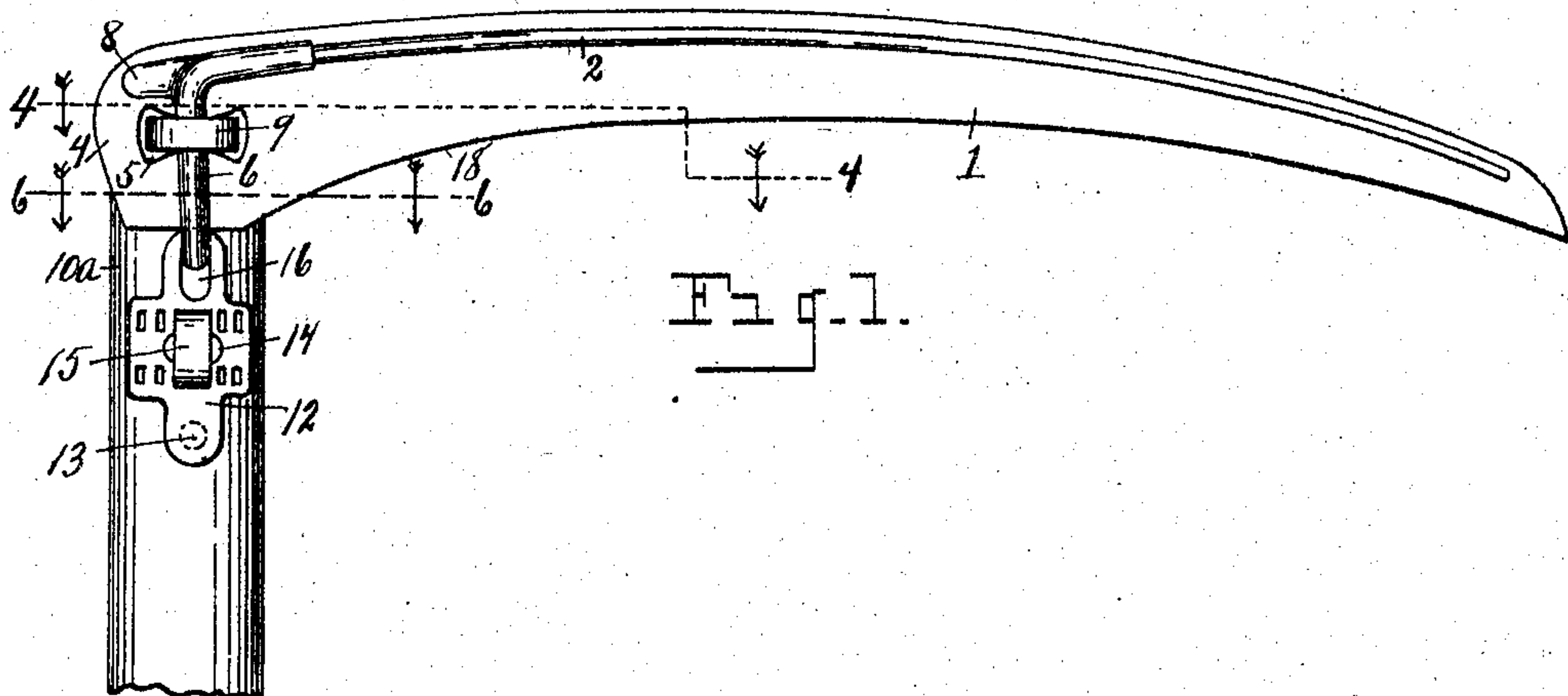


Fig. 1.

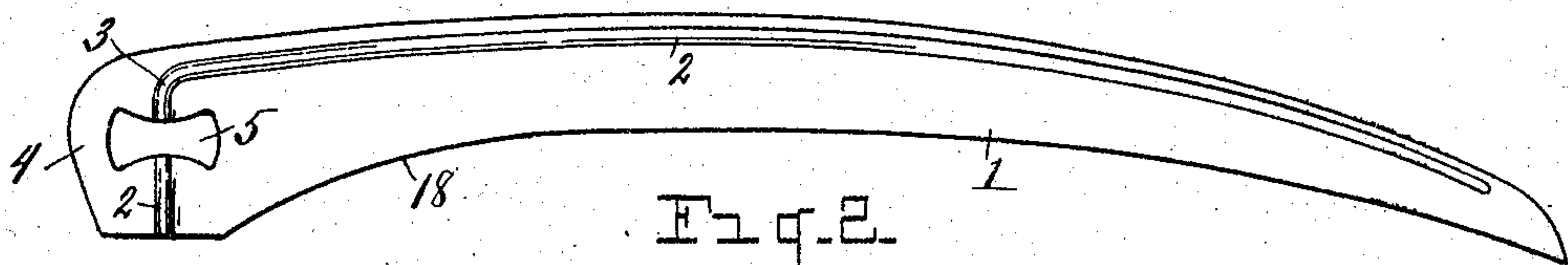


Fig. 2.

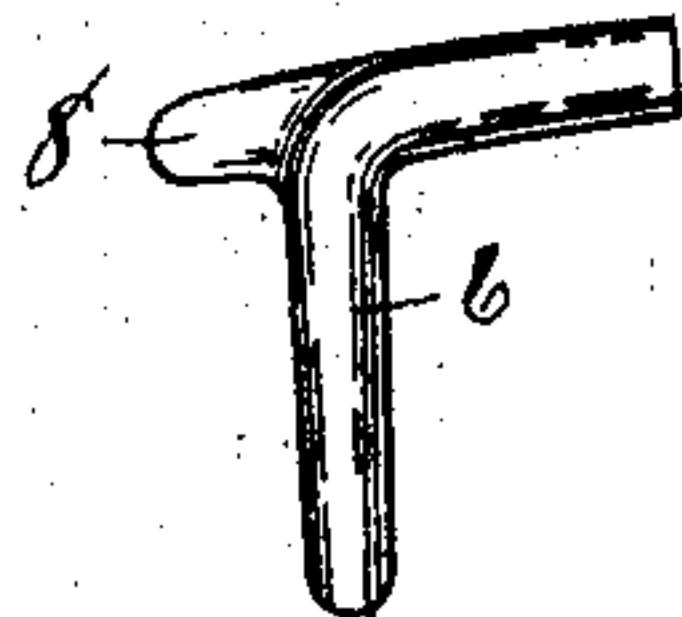


Fig. 3.

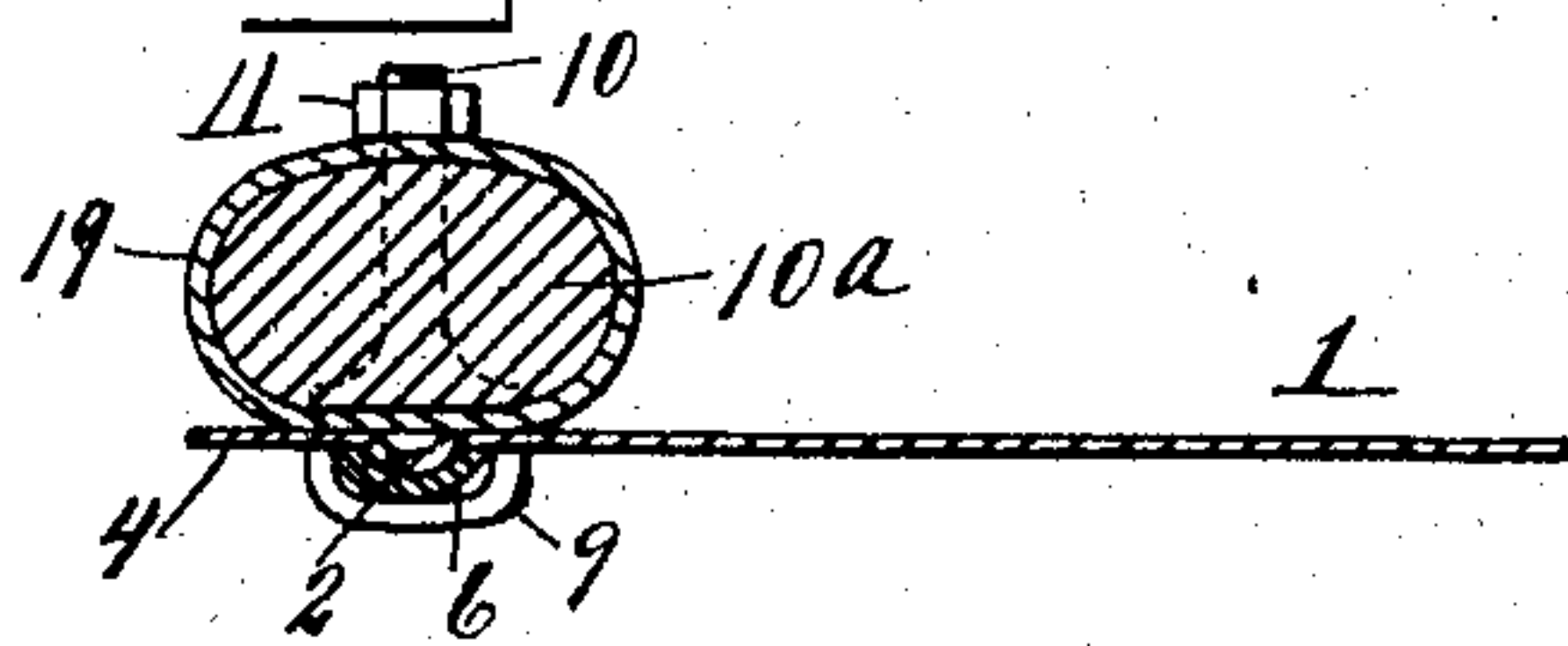


Fig. 4.

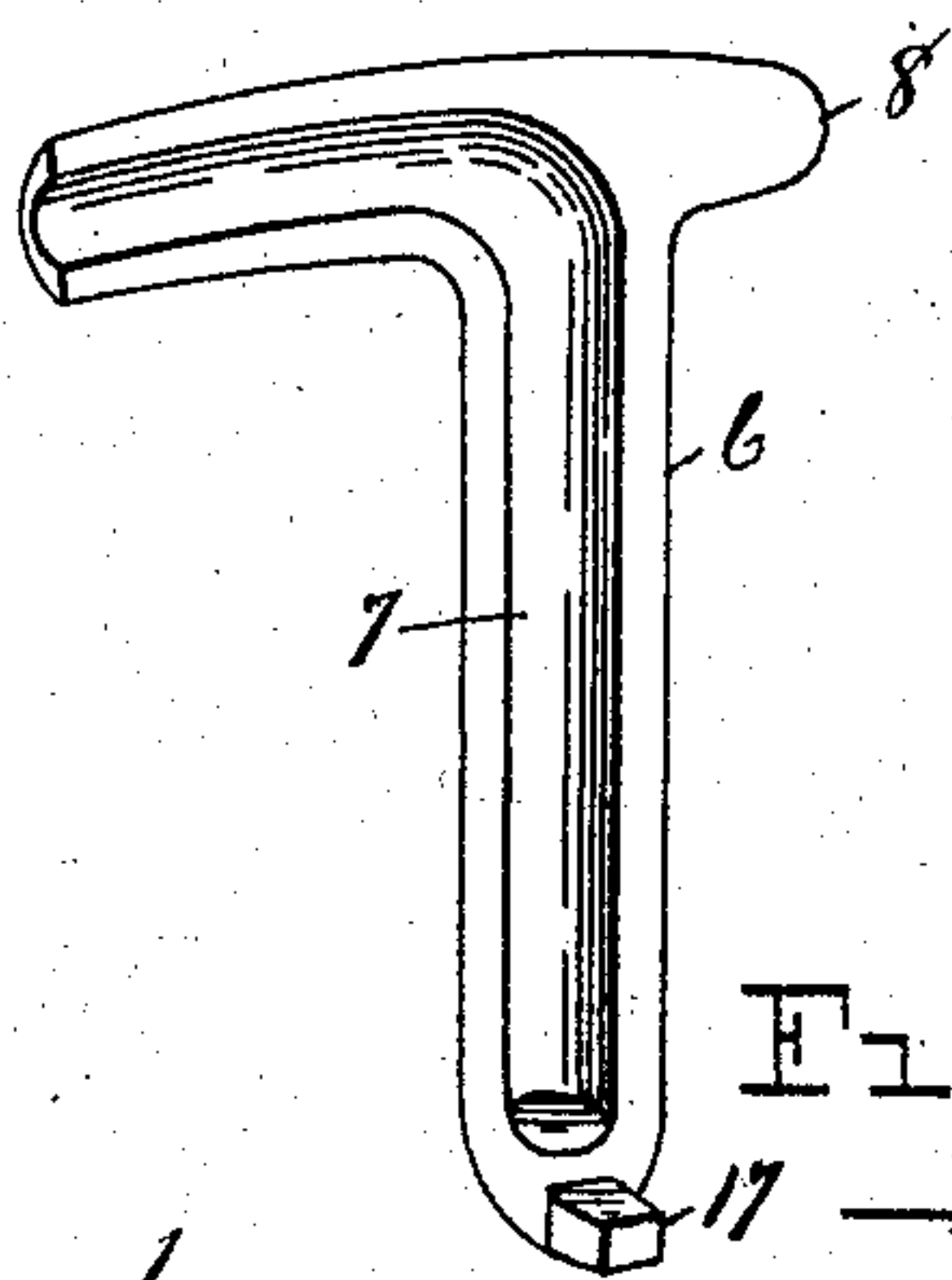


Fig. 5.

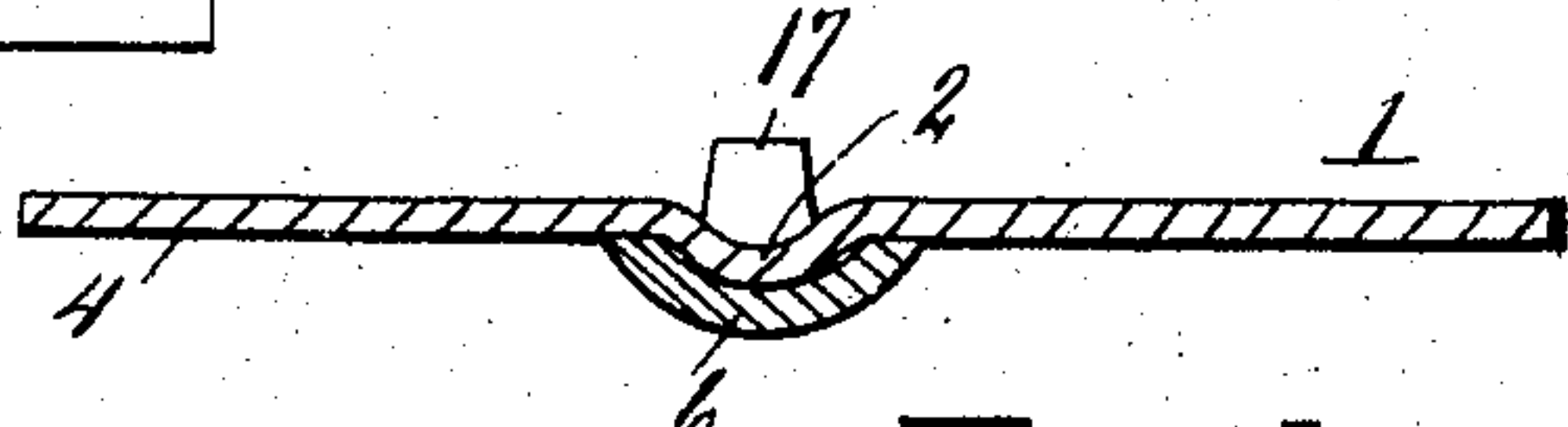


Fig. 6.

WITNESSES.

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# UNITED STATES PATENT OFFICE.

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## SCYTHE-SNATH FASTENING.

SPECIFICATION forming part of Letters Patent No. 791,758, dated June 6, 1905.

Application filed March 10, 1902. Serial No. 97,406.

*To all whom it may concern:*

Be it known that I, HORATIO S. EARLE, a citizen of the United States, residing at Detroit, in the county of Wayne, State of Michigan, have invented certain new and useful Improvements in Scythe-Snath Fastenings; 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 figures of reference marked thereon, which form a part of this specification.

This invention relates to scythe-snath fastenings; and it consists in the construction and arrangement of parts hereinafter fully set forth, and pointed out particularly in the claims.

The objects of the invention are to provide means for fastening the scythe-blade to the snath in a manner to obviate the expense of forming upon the blade the ordinary tang or shank, to afford means for attaching the scythe so that it may be set at any desired position or angle, and to provide for extending the cut of the blade entirely to the snath, thereby obviating any clogging at the heel of the blade.

The above objects are attained by the devices illustrated in the accompanying drawings, in which—

Figure 1 is an elevation showing a scythe attached to the snath by my improved fastener, a portion of the snath being broken away. Fig. 2 is an elevation of the scythe detached from the snath. Fig. 3 is an elevation of a rib adapted to be mounted on the heel of the blade, serving to strengthen the scythe at its point of attachment to the snath and acting as a kind of detachable tang. Fig. 4 is a transverse section on line 4 4, Fig. 1. Fig. 5 is a perspective view of the under face of the strengthening rib or tang. Fig. 6 is a transverse enlarged section through the heel of the scythe and said rib only as on line 6 6 of Fig. 1.

Referring to the figures of reference, 1 designates the scythe, which is provided with a raised bead 2, running longitudinally thereof near the back of the scythe. At the heel said bead curves abruptly, as at 3, and extends longitudinally of the heel in a line nearly at

right angles to the main portion of said bead. Formed in the heel 4 of the scythe is an opening 5, which bisects that portion of the rib 2 extending along the heel and is provided with flaring ends.

A T-shaped metal rib 6 is formed, preferably, of steel forging provided with a channel 7 in its under face, which is curved to receive the bead of the scythe, so as to embrace that part of the bead which extends along the heel and a portion of that part which is formed in the blade, the projecting end 8 of said rib lying on the heel of the scythe and serving to strengthen the parts at that point against twisting. The rib 6 when in position crosses the opening 5 in the heel of the scythe and is adapted to pass through the loop 9 of the fastening-bolt 10, said loop lying within the opening 5 in the heel of the scythe and the bolt passing through the snath 10<sup>a</sup> and receiving the nut 11 upon its threaded end, whereby by tightening said nut the loop is drawn tightly against the rib 7, clamping said rib firmly over the curved bead of the scythe and securely fastening said parts to the snath.

To provide for changing the angle or position of the scythe, an adjusting-plate 12 is employed, which is pivoted at 13 to the snath and is provided with an oblong opening 14 through its center to receive the T-head bolt 15, passing therethrough and through the snath. In the lower end of the plate 12 is a slot 16, in which the lug 17 (see Fig. 5) on the end of the rib 6 engages. By loosening the bolt 15 and the nut upon the loop 9 the plate 12 may be swung upon its pivot so as to shift its end carrying the slot 16, and thereby swing the rib 6, which carries with it the scythe because of the engagement of the bead 2 in the channel in said rib, whereby any desired adjustment of the scythe may be attained and said parts securely locked in position after adjustment.

It will be seen that by means of this fastening device the forming of a tang or shank upon the scythe is obviated, thereby materially reducing the expense of making the scythe, for the reason that the scythe-blade, as herein shown, may be formed completely by a process of rolling, while the striking up



of an integral tang or shank at the heel of the blade, as commonly practiced, requires hammer-work, which is slow and expensive. It will also be seen that by forming the scythe-blade as shown provision is made for extending the cutting edge 18 of the scythe directly to the snath, obviating any clogging of grass or weeds between the heel of the scythe and the snath. The detachable rib 6 serves in a measure as a tang, for it is through the medium of said rib that the scythe is secured to the snath and an adjustment of the scythe is effected. The flaring ends of the aperture 5 allow a movement of the scythe upon the loop 9, insuring sufficient adjustment of the scythe to attain any desired angle.

While the means herein shown for attaching the tangless scythe to the snath is the preferred form, I do not wish to limit myself to the specific construction herein shown, for certain changes and modifications may be made therein without departing from the spirit of my invention.

A ring or ferrule 19 surrounds the end of the snath, through which the bolt 10 passes and which serves to relieve the snath from the strain of said bolt.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a scythe-snath fastener, the combination with the snath, of the snath-loop, a scythe-blade having an opening in its heel which re-

ceives said loop, a rib passing through said loop and across said opening, said rib having means of engagement with the scythe. 35

2. The combination with the snath and fastener, of a scythe-blade, said blade having an opening at its heel, a snath-loop, said loop lying in said opening and means for locking said loop in said opening and to said snath. 40

3. The combination of the scythe and snath, of a snath-loop, the scythe having an aperture in the blade thereof, and means for locking the loop of the snath within the aperture of the blade. 45

4. The combination with a snath, of a snath-loop, a scythe having a curved bead extending from the blade onto the heel thereof, an aperture in the heel of the blade adapted to receive the snath-loop, and a rib embracing the rib of the scythe and lying within said loop. 50

5. The combination with a snath, of a snath-loop, a scythe having an aperture in the heel, the loop passing through said aperture, a rib lying upon the heel of the scythe and embraced within said loop, said rib crossing said aperture, a movable plate upon the snath, and the end of said rib engaging said plate. 60

In testimony whereof I sign this specification in the presence of two witnesses.

HORATIO S. EARLE.

Witnesses:

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E. C. DAVIS.