

No. 652,254.

Patented June 26, 1900.

C. A. ELLIS.  
BRACE FOR SCYTHE BLADES.

(Application filed Mar. 23, 1900.)

(No Model.)

Fig. 1.

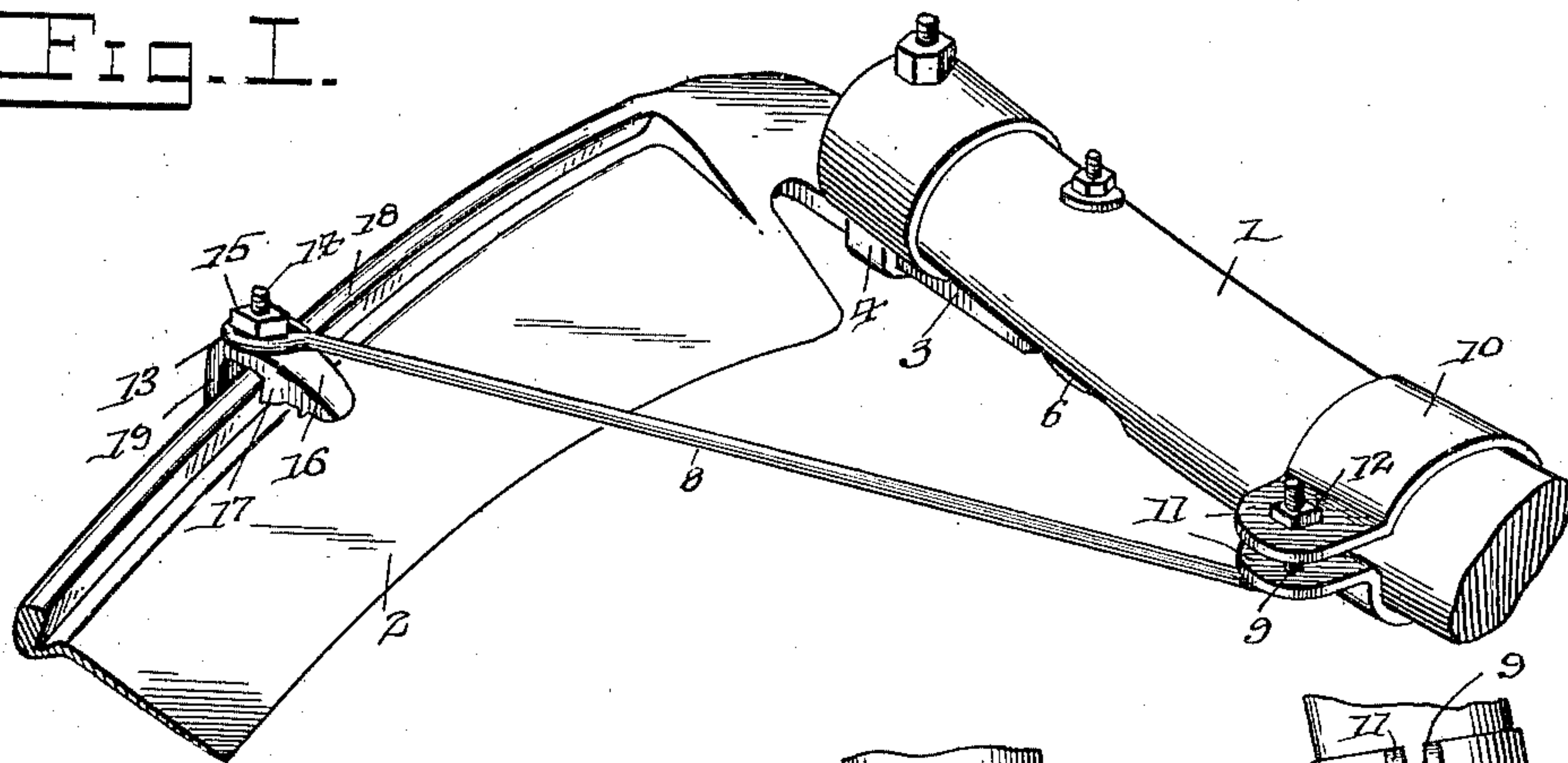


Fig. 2.

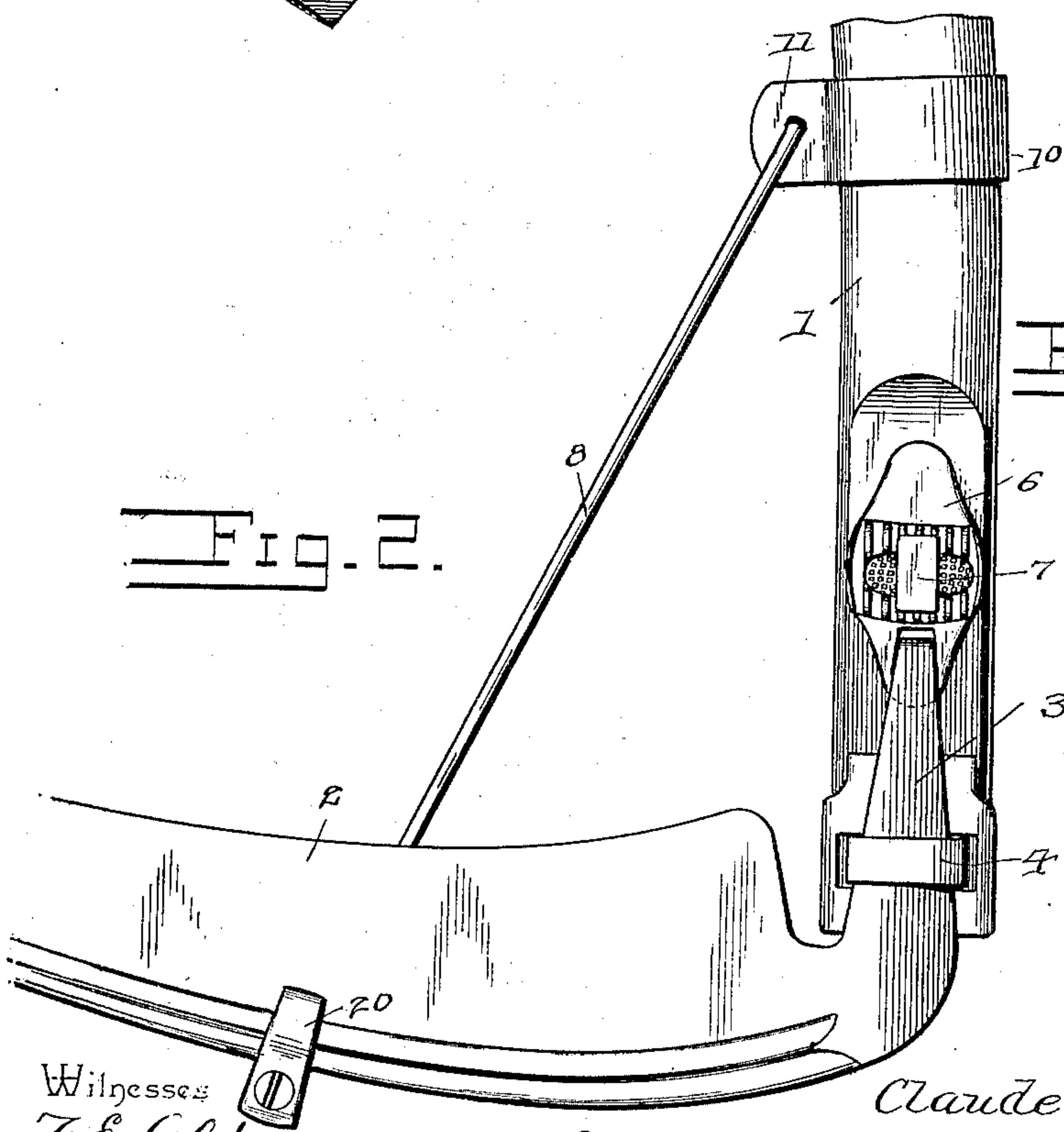
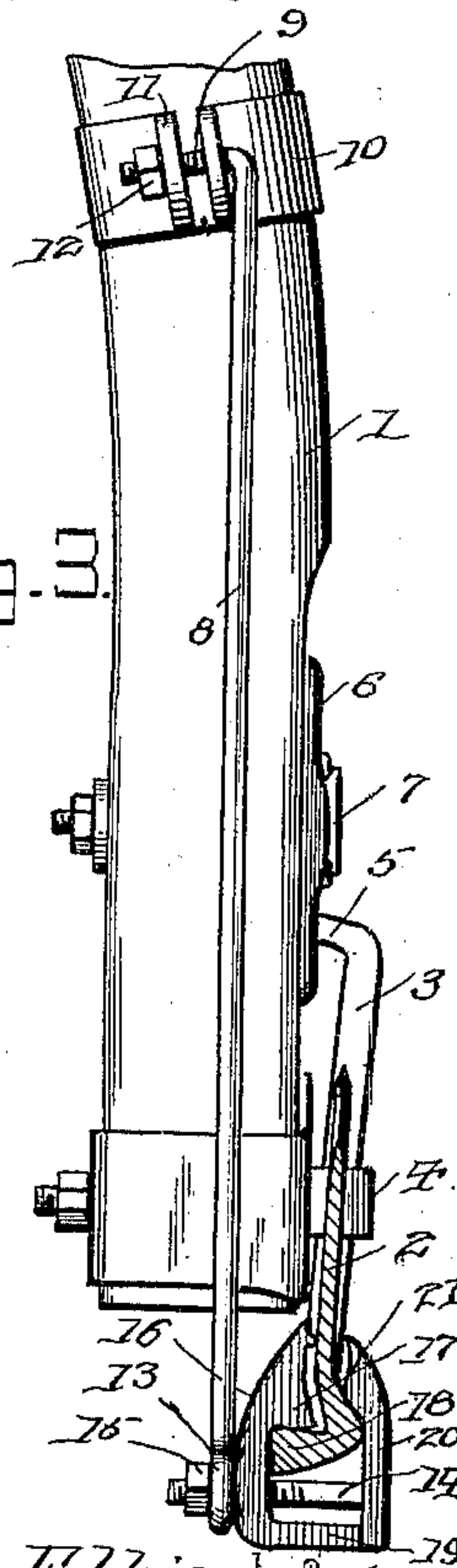


Fig. 3.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## BRACE FOR SCYTHE-BLADES.

SPECIFICATION forming part of Letters Patent No. 652,254, dated June 26, 1900.

Application filed March 23, 1900. Serial No. 9,936. (No model.)

*To all whom it may concern:*

Be it known that I, CLAUDE A. ELLIS, a citizen of the United States, residing at Carlisle, in the county of Sullivan and State of Indiana, have invented a new and useful Brace for Scythe-Blades, of which the following is a specification.

This invention relates to scythes, and has for its object to provide an improved brace between the scythe-blade and the snead or handle thereof, so as to form an additional fastening therefor and to permit of a free adjustment of the hang of the blade or the inclination between the latter and the snead. It is furthermore designed to provide a device of this character which is applicable to any of the ordinary forms of scythes without altering or changing the latter and without forming openings in the snead, which would weaken the latter.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a portion of a scythe snead and blade having the present brace applied thereto. Fig. 2 is an elevation of the opposite side of the scythe. Fig. 3 is an edge elevation thereof.

Corresponding parts in the several figures of the drawings are designated by like characters of reference.

Referring to the accompanying drawings, 1 designates the outer end portion of an ordinary scythe snead or handle, and 2 the adjacent heel portion of the blade, the latter having the usual transversely-disposed shank or tang 3, which is connected to the snead by means of any of the common or well-known forms of fastenings. As shown in the accompanying drawings, the shank or tang is received within an eyebolt 4, which extends through the adjacent end of the snead, and the extremity of the tang is bent inwardly to-

ward the snead to form a lateral lug or projection 5, which is received within an opening in a plate 6, that is slotted transversely to receive a headed bolt 7, that extends through the snead and holds the plate in place. By this well-known arrangement the hang of the blade may be adjusted to suit the operator.

In carrying out the present invention there is provided a brace-rod 8, that has its upper end bent into a lateral screw-threaded hook or arm 9, which is adapted to register with the corresponding screw-threaded perforations in the opposite ends of the substantially U-shaped clamp or collar 10, that embraces the snead. This band or collar is formed from a single strap of metal and has its opposite ends bent outwardly into the substantially-parallel ears 11, which are perforated to receive the hook or arm of the brace, and a suitable binding-nut 12 is fitted to the outer end of the arm to prevent accidental displacement of the latter from the collar or clamp and to bind the collar firmly upon the snead.

The brace-rod is straight and inclines outwardly from the snead and is provided at its lower end with an eye 13 for the reception of a laterally-disposed headed and screw-threaded bolt or fastening 14, which extends transversely beneath the back edge of the blade 2 and is provided with a nut 15 to bear against the outer side of the eye 13. Fitted to the bolt 14 and located between the eye and the blade is a substantially L-shaped clamp member 16, the inner end of which is provided with a lateral shoulder 17 to fit into the groove upon the upper side of the blade and to overhang the laterally-flanged portion 18 of the back edge of the blade. The transverse heel portion 19 of the clamp member extends laterally across the back edge of the blade and bears against the inner face of the opposite clamp member 20, which is also provided with a lateral inwardly-directed shoulder 21 to bear against the outwardly-deflected portion of the blade, which is produced by the groove upon the upper side thereof. As best indicated in Fig. 2 of the drawings, the headed end of the bolt 14 is countersunk in the outer face of the outer clamp member 20 and is provided with a screw-driver slot to permit of



the clamp members being set to the blade and also removed therefrom.

From the foregoing description it will be apparent that the clamps at the opposite ends of the brace-rod may be adjusted longitudinally upon the snead and the blade, respectively, so as to vary the angle between the blade and the snead, and thereby adjust the hang of the blade, and at the same time the latter is firmly braced, so as to greatly relieve the snead of the torsional strain thereon. It will of course be understood that the brace-rod is located upon the upper side of the blade, so as not to interfere with the usual operation. Also the brace may be applied to any of the common or ordinary forms of scythes without altering or changing the same in any manner whatsoever.

In the adjustment of the brace-rod it will be seen that the clamps at the opposite ends thereof may be moved longitudinally upon the snead and the blade, respectively, and the rod also has a pivotal or hinged adjustable connection with each of the clamps, whereby the rod has a plurality of adjustments, so as to be accommodated to very fine adjustments of the blade.

What is claimed is—

1. The combination with a scythe-snead, and the blade thereof, of a brace, having a longitudinally-adjustable connection with the blade, and an adjustable hinged or pivotal connection with the snead.

2. The combination with a scythe-snead, and the blade thereof, of a brace, a pivotal or hinged connection between one end of the latter and the blade, said connection also being adjustable longitudinally of the blade, and a pivotal or hinged connection between the opposite end of the brace and the snead, said connection also being adjustable longitudinally of the snead.

3. The combination with a scythe-snead, and the blade thereof, of a brace, having one end connected to the blade, and its opposite end provided with a lateral hook or arm, and a collar or clamp fitted to the snead, and provided with opposite terminal ears, which have corresponding perforations to receive the lateral hook or arm.

4. The combination with a scythe-snead, and the blade thereof, of a brace, having one end connected to the blade, and its opposite end provided with a lateral screw-threaded

hook or arm, and a substantially U-shaped clamp or collar embracing the snead, and having its opposite ends formed into ears, having corresponding perforations to receive the lateral arm, and a nut fitted to the latter and to bind the clamp upon the snead.

5. The combination with a scythe-snead, and the blade thereof, of a brace, having one end connected to the snead, and its opposite end provided with a clamp for engagement with the back edge of the blade.

6. The combination with a scythe-snead, and the blade thereof, of a brace, having one end connected to the snead, opposite clamp members located at the opposite end of the brace and for engagement with the back edge of the blade, and a lateral fastening carried by the brace, supporting the clamp members, and forming means for operating the latter.

7. The combination with a scythe-snead, and the blade thereof, of a brace, having one end connected to the snead, a lateral fastening provided at the opposite end of the brace, and a pair of opposite clamp members carried by the fastening and to embrace the back edge of the blade, one of the members being of substantially L shape.

8. A brace for a scythe-blade, comprising a brace-rod, having one end provided with a lateral screw-threaded arm, and a nut fitted thereto, a substantially U-shaped clamp or collar having its opposite ends formed into opposite ears, which are provided with corresponding perforations to receive the lateral arm, the opposite end of the brace-rod being provided with an eye, a lateral screw-threaded fastening or bolt received within the eye, a nut carried by the bolt and bearing against the outer side of the rod, an inner substantially L-shaped clamp member fitted to the bolt and against the inner side of the brace-rod, an outer clamp member bearing against one end of the other member, and the outer end of the bolt having a head to bear against the outer clamp member.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CLAUDE A. ELLIS.

Witnesses:

T. S. RISINGER,  
R. C. O. HAVER.