

(No Model.)

J. H. COMBS.
WHIFFLETREE PLATE.

No. 259,500.
Fig. 1.

Patented June 13, 1882.

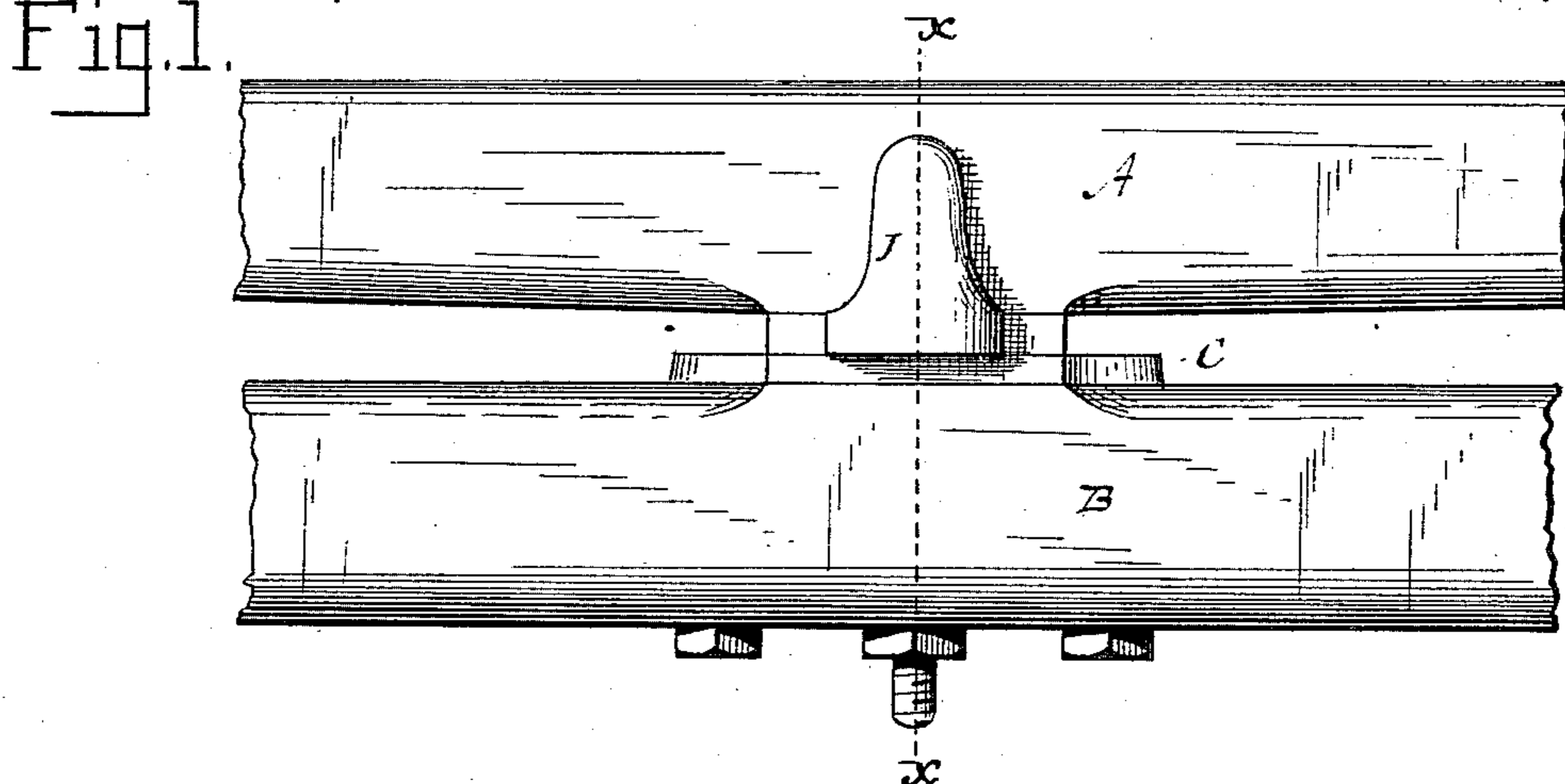


Fig. 2.

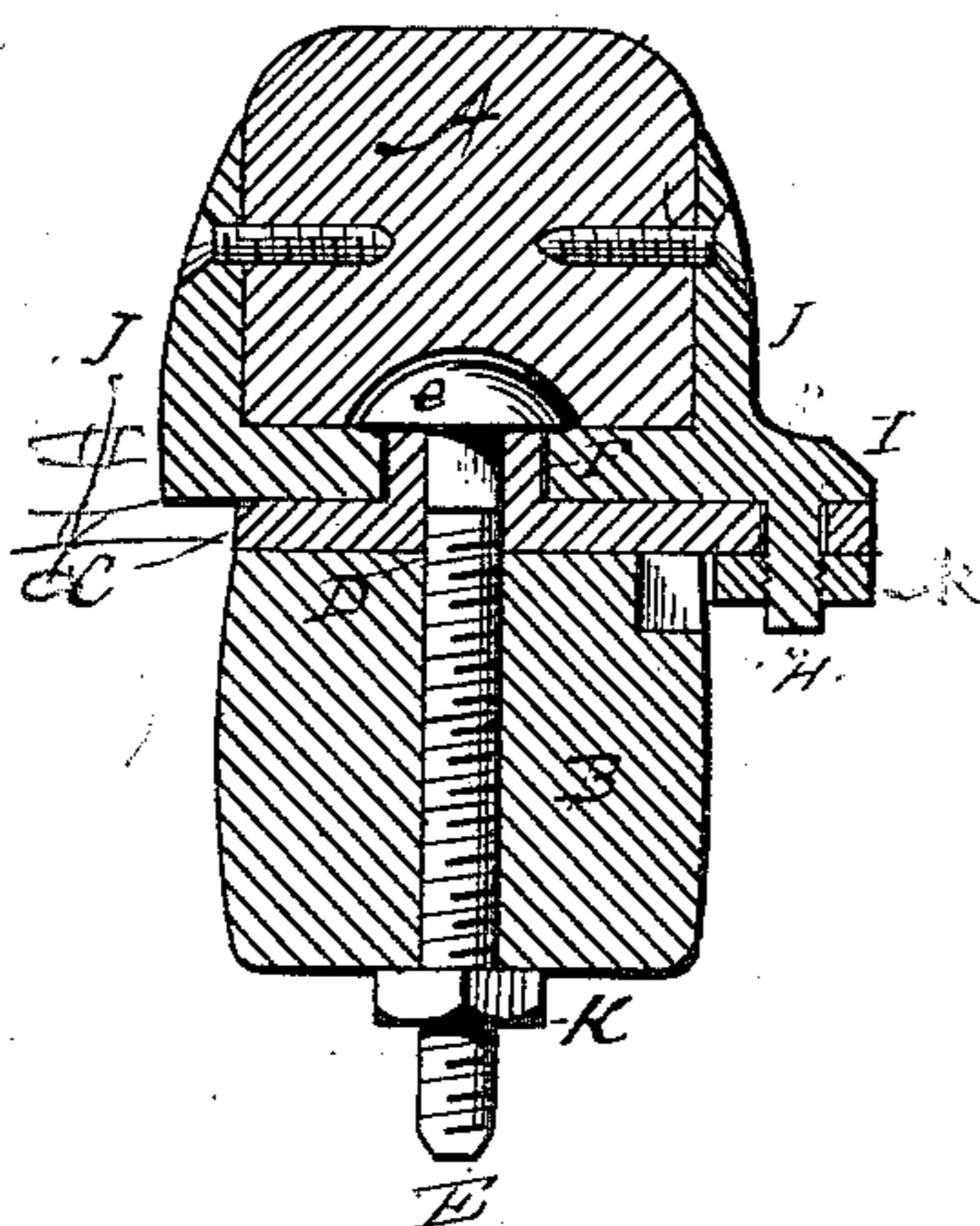


Fig. 3.

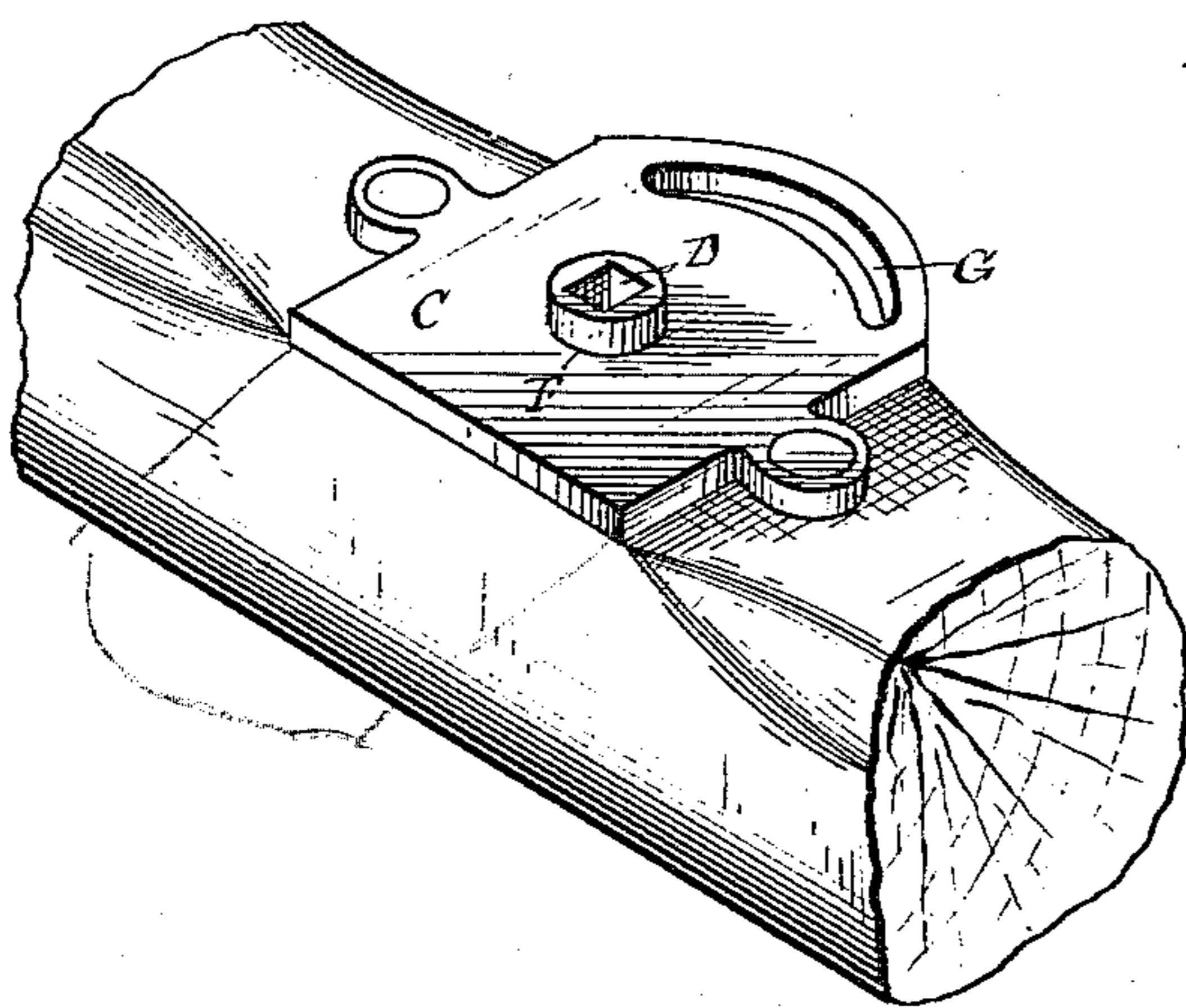
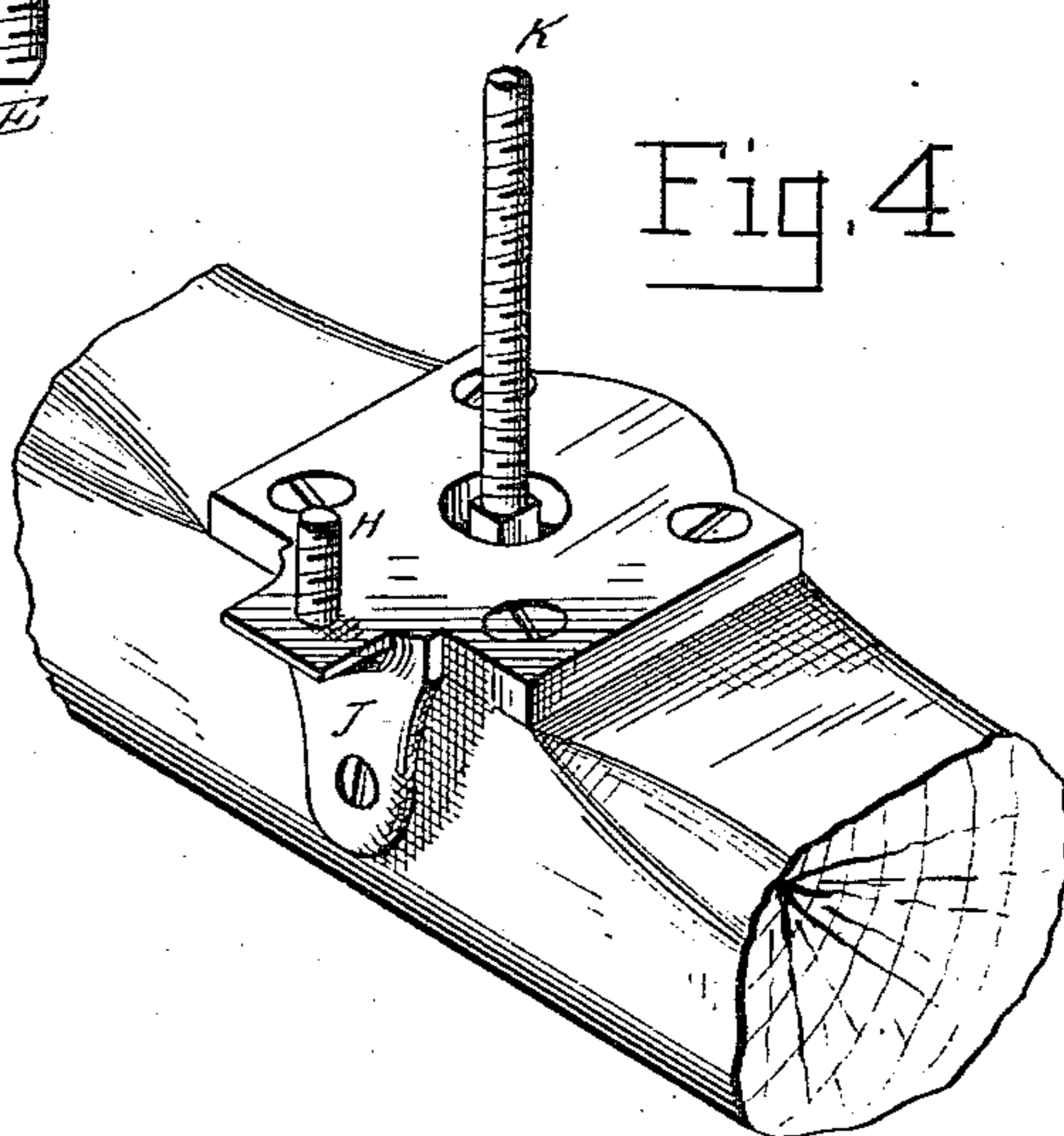


Fig. 4

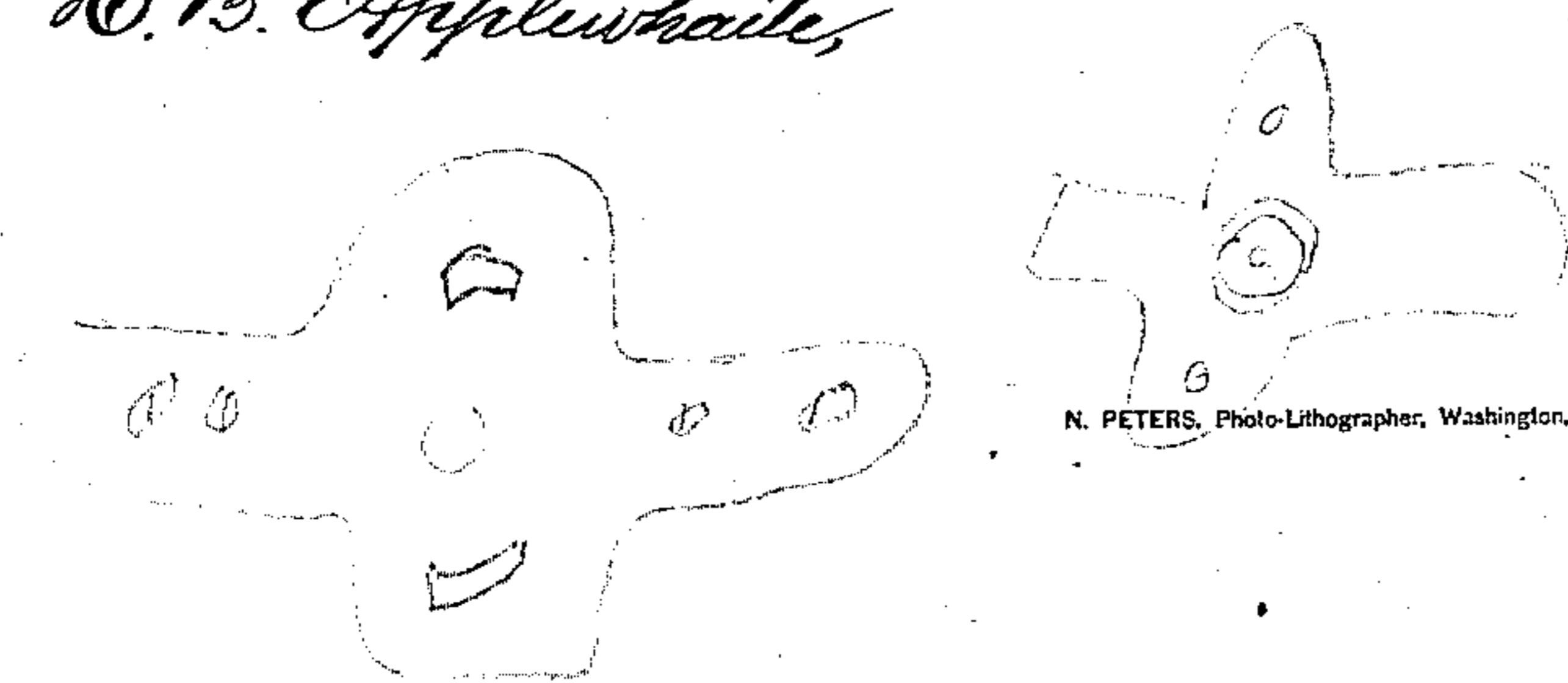


WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN H. COMBS, OF STAMFORD, CONNECTICUT.

WHIFFLETREE-PLATE.

SPECIFICATION forming part of Letters Patent No. 259,500, dated June 13, 1882.

Application filed February 8, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. COMBS, of Stamford, Connecticut, have invented a new and useful Improvement in Whiffletree-Plates, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front elevation of a whiffletree in position with my improvements applied. Fig. 2 is a cross-section through *xx* of Fig. 1. Fig. 3 shows the form of lower plate in perspective when whiffletree is detached. Fig. 4 is a perspective of under side of whiffletree with plate and bolt attached.

The object of my invention is to secure the whiffletree without passing the bolt through it; and it consists in the combination of devices hereinafter described and claimed.

To enable others to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the drawings, A represents a section of a whiffletree, and B the cross-bar to which it is attached. On the cross-bar is secured the plate C, with the hole D passing through it and the cross-bar for the reception of the bolt E. That portion of the hole through the plate C is square, and is surrounded by a circular extension or flange, F, arising above the face of plate, for a purpose hereinafter explained. On the rear of the plate C is a slot, G, for the reception of the screw-pin H on the upper plate, I. The plate I is provided with two jaws, J J, between which is clamped and secured the whiffletree. These jaws may be bolted or otherwise secured to the sides of the whiffletree, and screws may be passed through the plate into the lower face of the whiffletree, as shown in Fig. 4. On the face of the plate I is secured the screw-pin H, fitting into the slot G and se-

cured by the nut K. By means of this pin the tendency of the whiffletree to turn when strain is applied is overcome and the whiffletree is held in position, while the slot allows the necessary revolving play to the same.

The essential feature of my invention consists in the construction and application of the bolt E, the under side of the whiffletree being recessed to receive the head *e*, as shown in Fig. 2. The upper portion of the shank of the bolt E is square, and is made to fit snugly in and through the square hole in the plate C and extension F, thus preventing the bolt E from turning when in position in the plate C. The opening through the plate I for the passage of the bolt E is circular and of a size to fit over the extension or flange F on the plate C, whereby the wear is thrown on the flange F and the head of the bolt, and not on the shank of the bolt.

It is evident from this description of my invention I not only protect the whiffletree from the weakening effect of passing the bolt through it, but I protect the bolt itself from the effect of wear and becoming loose.

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

The plate C, provided with an extension or flange, F, having a square hole for the reception of the bolt E, and the slot G, in combination with the plate I, provided with the screw-pin H, and having the round opening for the reception of the flange F, and the bolt E, provided with a shank, all constructed and arranged substantially as and for the purpose set forth.

JOHN H. COMBS.

Witnesses:

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