

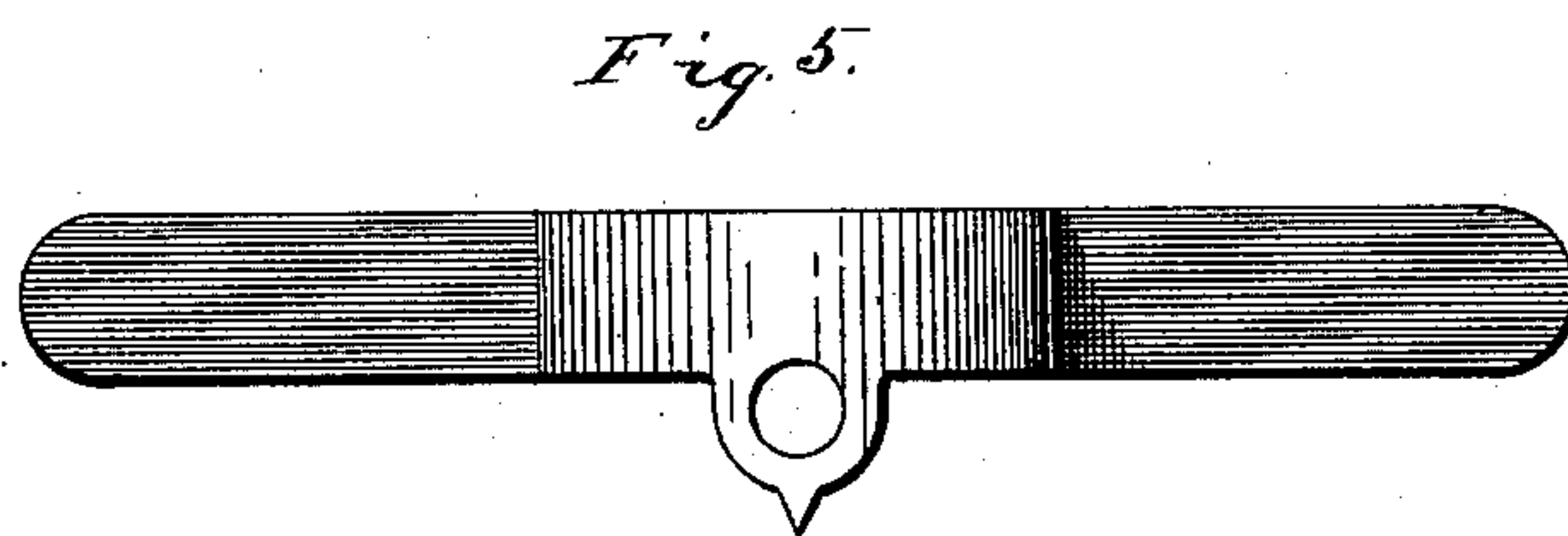
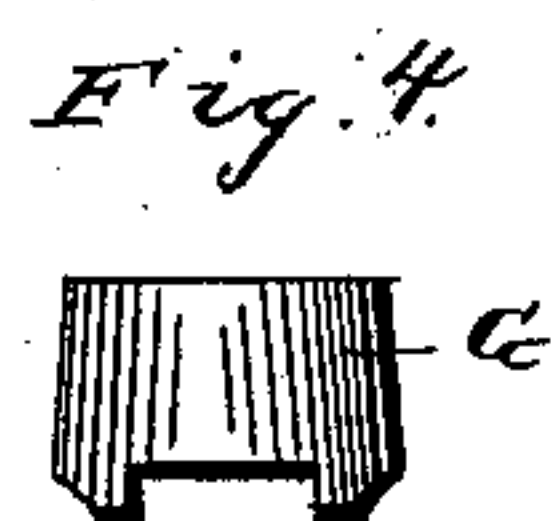
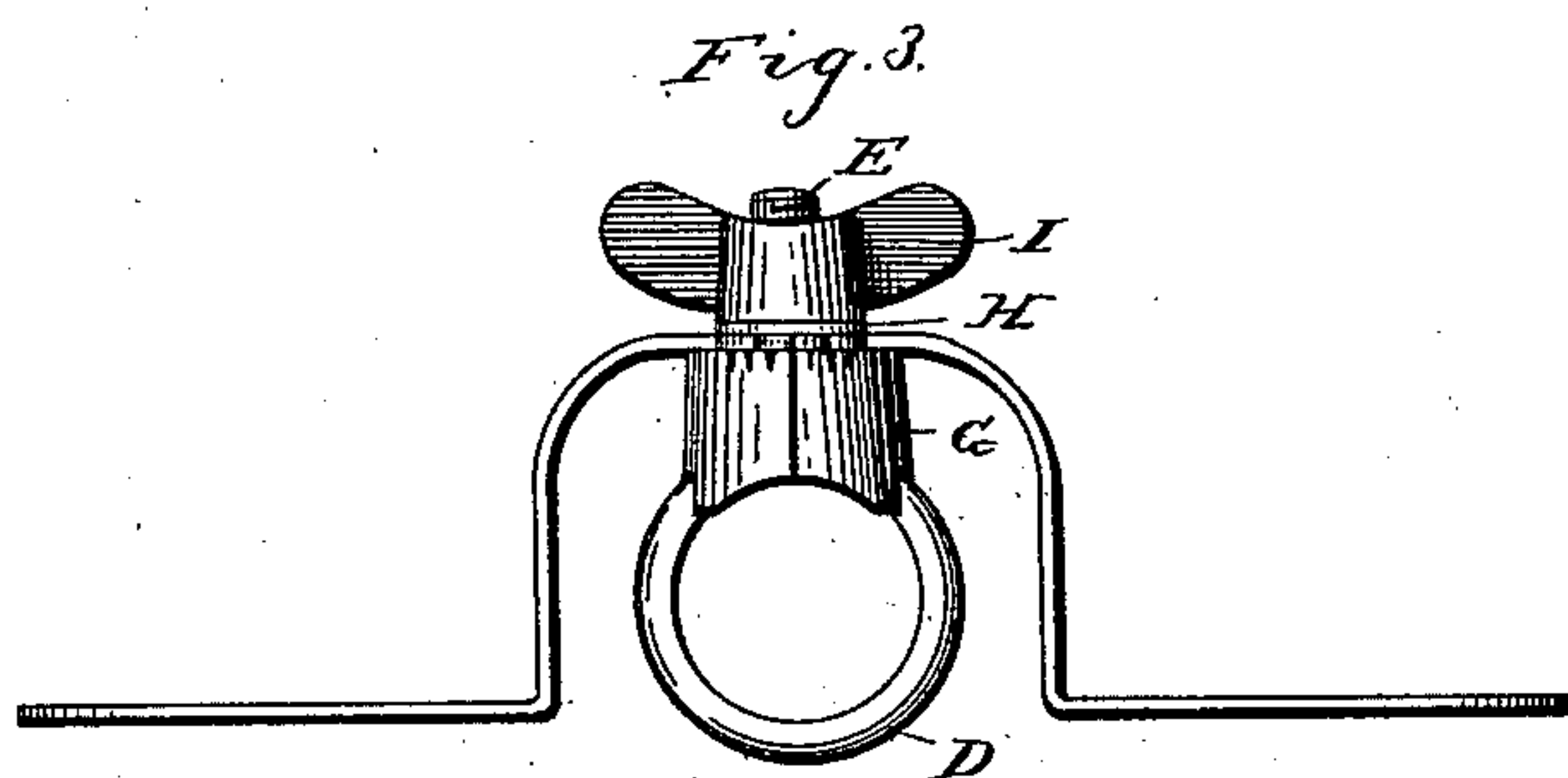
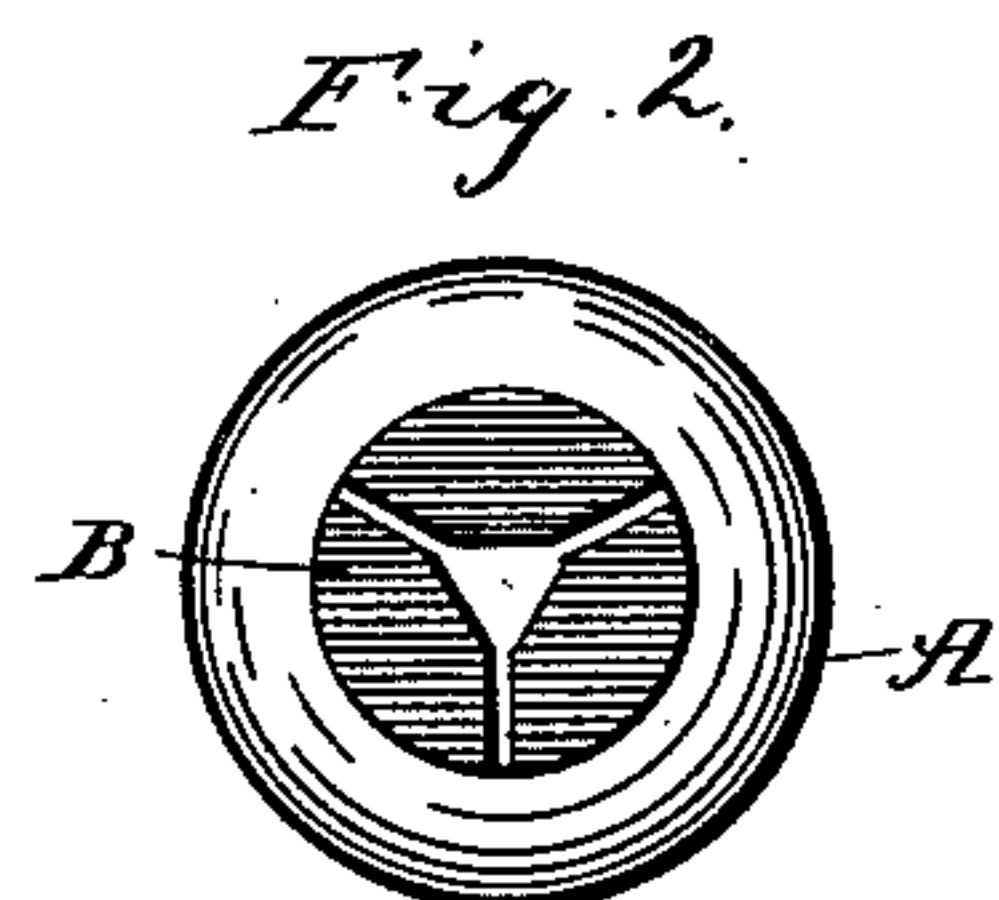
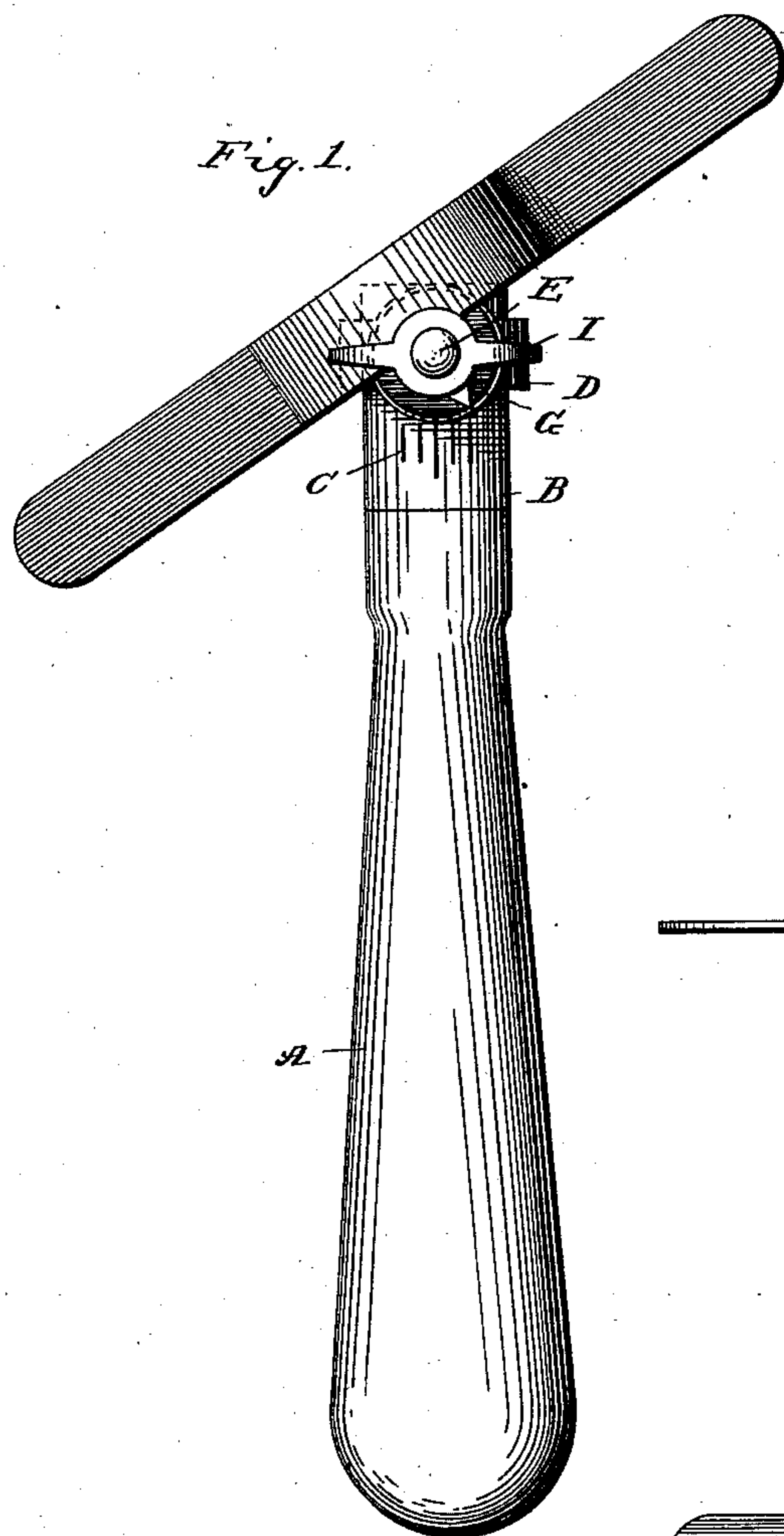
(No Model.)

P. J. DECKER.

TOOL HOLDER.

No. 360,953.

Patented Apr. 12, 1887.



WITNESSES

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# UNITED STATES PATENT OFFICE.

PETER J. DECKER, OF COPAKE IRON WORKS, NEW YORK.

## TOOL-HOLDER.

SPECIFICATION forming part of Letters Patent No. 360,953, dated April 12, 1887.

Application filed January 29, 1887. Serial No. 225,873. (No model.)

*To all whom it may concern:*

Be it known that I, PETER J. DECKER, a citizen of the United States, residing at Copake Iron Works, in the county of Columbia and State of New York, have invented certain new and useful Improvements in Tool-Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in tool-holders, and is especially designed to hold files in such a manner as to enable the person using the file to file with accuracy—that is to say, to assist the  
15 person filing to file all the teeth to a certain depth and to file them all with exactly the same pitch.

In the accompanying drawings, forming a part of this specification, and on which similar letters of reference indicate the same or corresponding features, Figure 1 represents a plan view of my improved holder complete; Fig. 2, a view looking toward the end of the handle in which the file is placed. Fig. 3 is a detail side elevation of the guiding-bar and the means for securing it to the handle, looking at the side nearest the person holding the tool; Fig. 4, a detail view of the jam-nut which secures the guiding-bar; Fig. 5, a detached plan view of the guiding-bar, showing the pointer.  
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The letter A designates the holder proper, the same being of wood or any suitable material, rounded at one end and provided at the other with a metallic block, B, which fits over the handle and is securely fastened thereto by a pin or otherwise. This block, as seen more clearly in Fig. 1, is provided with an index, C, the purpose of which will hereinafter appear.  
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40 The center of the metallic block is bored in the shape of a triangle to receive the triangularly-shaped end of the file, and from each point of the triangle a cut is made extending to the outer face of the block, so as to allow it  
45 to yield to either the pressure of the file in the center outward or the pressure from the exterior, clamping the file tightly in its place.

Over the metallic block B is loosely fitted a metallic ring, D, having a screw-threaded extension, E, which extends through an aperture in the clamping-nut G, the ring itself fitting  
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well up into the interior of the nut, so that the action of the latter upon the former will be positive. Over the screw, on the upper surface of the clamping-nut, is placed a washer, H, and upon the screw is fitted a thumb-nut, I, by means of which the whole is drawn tightly together.  
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As seen more clearly in Fig. 5, the guiding-bar is provided with a pointer which registers with the index cut on the metallic block, and a like one on the clamping jam or nut, the purpose of which will hereinafter appear.  
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The holder is represented as complete in Fig. 1, and when the file is inserted the tool  
65 is ready for use.

The operation of using the tool is as follows: The saw to be filed is secured, as usual, in a vise or similar device and clamped at a point slightly below the bottom of the teeth. The file  
70 in the holder is then placed between two of the teeth and turned until it has the proper pitch or inclination to the side of the saw-blade. When this is done, the thumb-nut is screwed down hard, and the guiding-bar is  
75 secured at such an angle to the saw-blade that all the teeth will be filed to the same pitch as the first one. When the operator has finished filing every other tooth, he then notes the position of the pointer and turns the guiding-bar  
80 until it points to a like position on the other side of the center line of the index marked on the thumb-nut and metallic block, when the tool will be in an exactly similar position to file the teeth which run the other way.  
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The operator is prevented from filing the teeth too deeply, because as soon as he reaches the right depth the guiding-bar will rest upon the vise and the file be prevented from sinking deeper.  
90

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

1. In a tool-holder, the combination, with the handle thereof, provided at one end with a metallic block for the reception of the tool, of a guiding-bar mounted upon a ring which encircles the block and is secured thereto by a thumb-nut.  
95

2. In a tool-holder, the combination, with the handle thereof, provided at one end with a graduated metallic block for the reception of  
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the tool, of the guiding-bar provided with a pointer to register with the graduations on the block, said bar being mounted upon a ring which encircles the block and adjustably secured thereto, so as to permit of the partial rotation of the guiding-bar.

3. In a tool-holder, the combination, with the handle thereof, provided with a metallic block having an aperture for the reception of the tool and cuts extending triangularly therefrom, of a ring which encircles the same, having a screw-threaded extension, a jam-nut which fits over the ring, and a guiding-bar fitting over the jam-nut and securely held between the jam-nut and a superimposed thumb-nut.

4. In a tool-holder, the combination, with the handle thereof, and a ring which encircles the same, provided with a nut which binds the ring to the handle, of a guiding-bar bent over and around the handle and having horizontally-extending arms, so as to impinge against the blade of the saw.

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

PETER J. DECKER.

Witnesses:

MERRILL A. LADD,

FREDK. W. BELCHER.