

M. F. MCINTYER.

Nut and Bolt Fastening.

No. 133,873.

Patented Dec. 10, 1872.

Fig. 2.

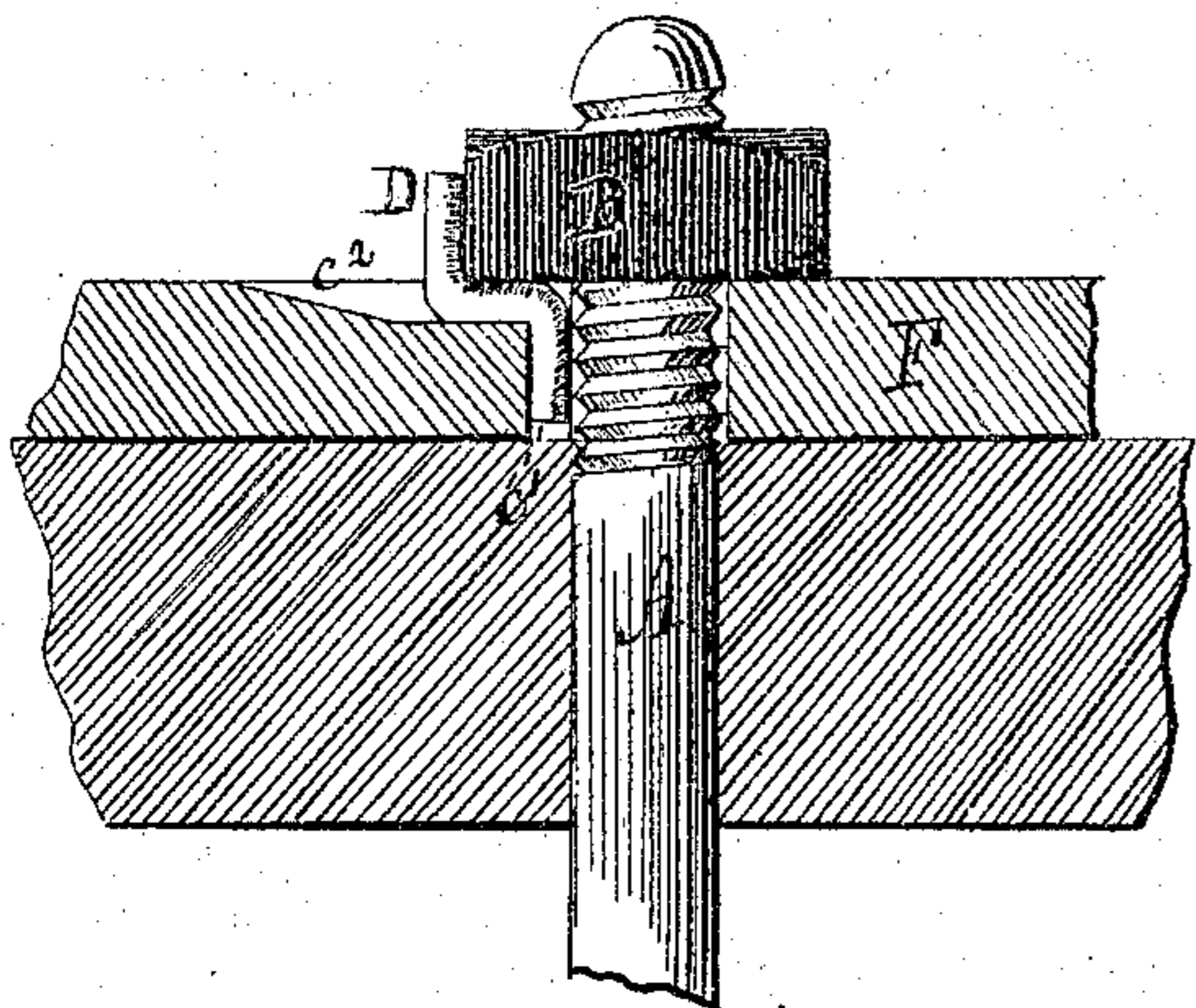


Fig. 1.

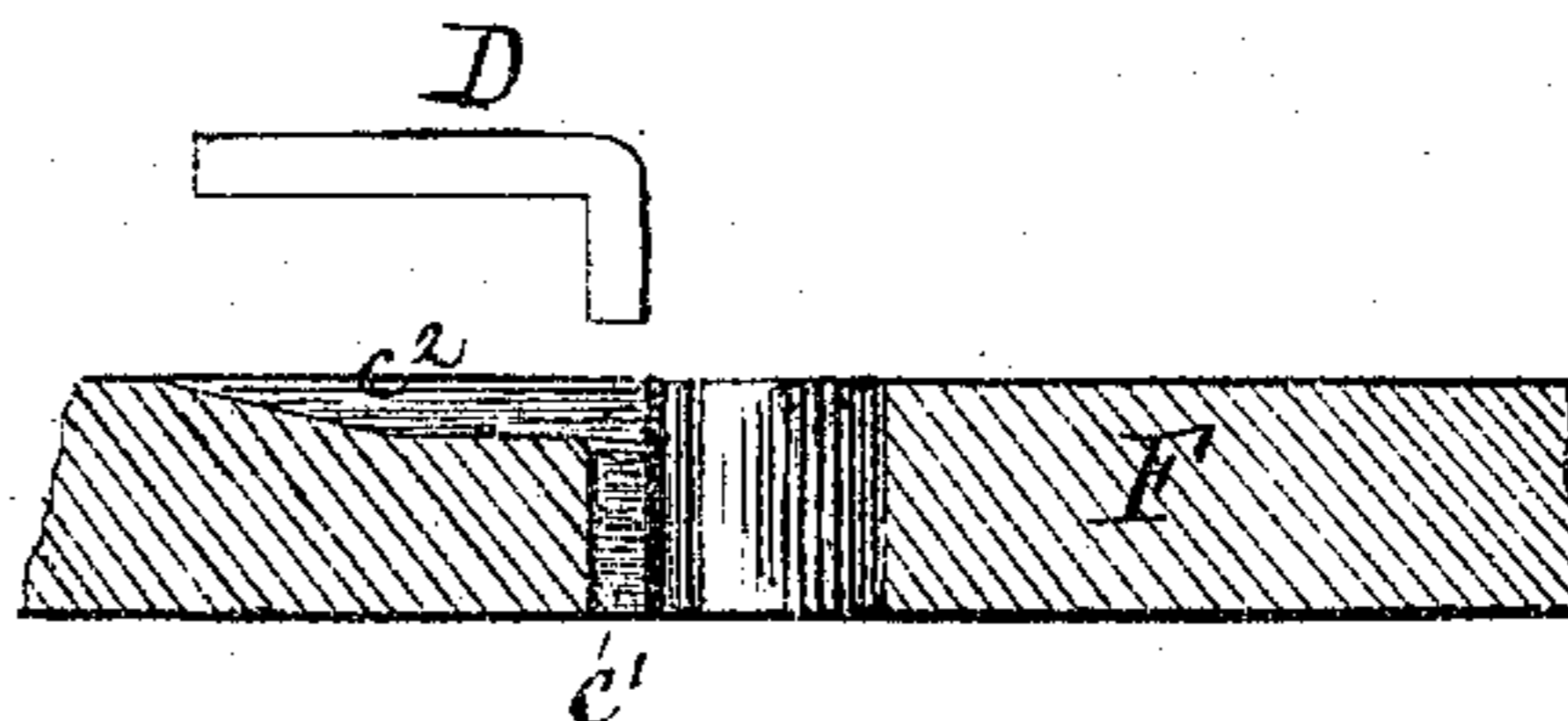
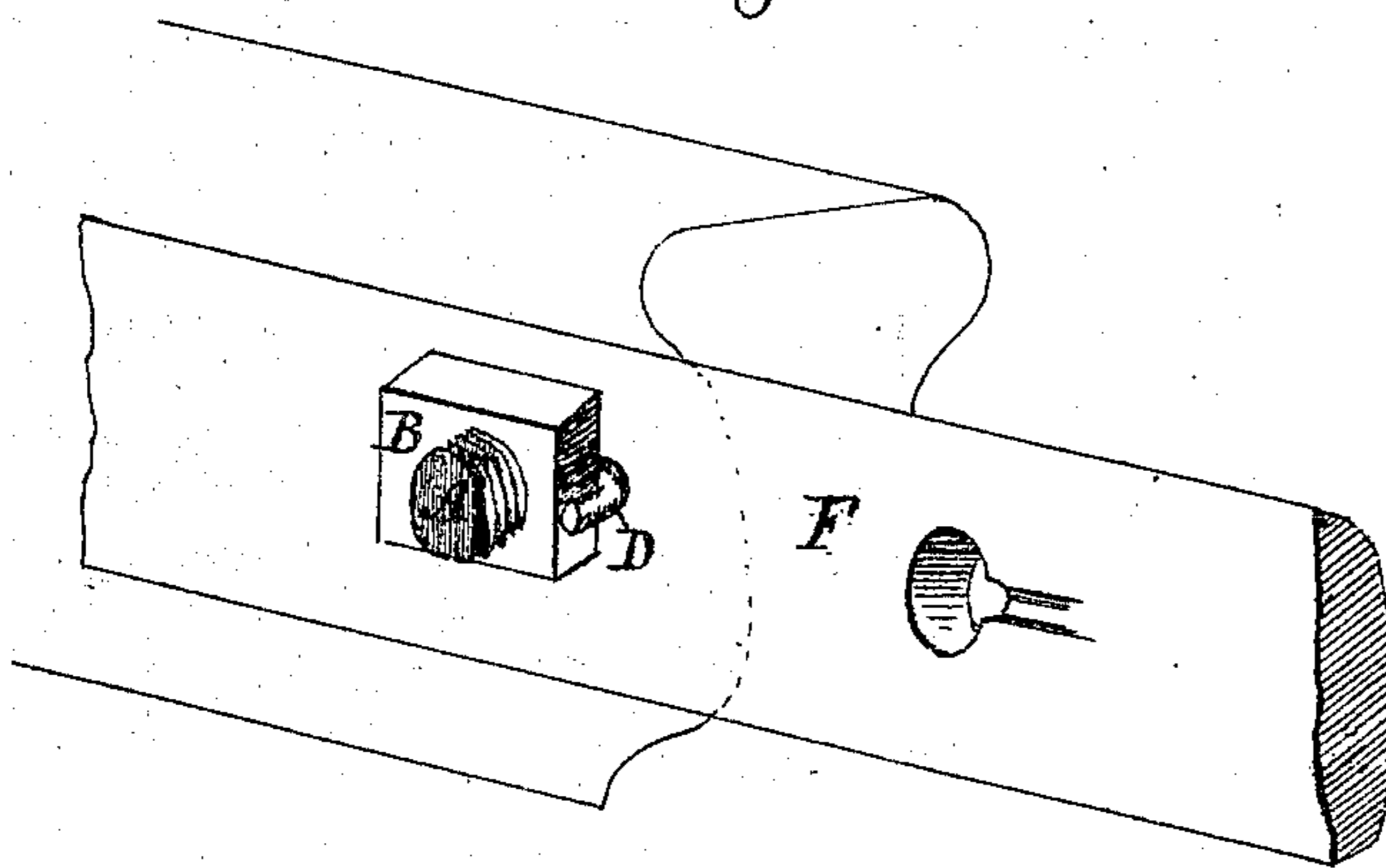


Fig. 3.



Witnesses,
Edw. F. Brown.
Geo. L. Ewin

Inventor,
Malcolm F. McIntyer,
By E. R. Brown,
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UNITED STATES PATENT OFFICE.

MALCOLM F. MCINTYER, OF GIRARD, PENNSYLVANIA, ASSIGNOR TO HIMSELF
AND JAMES WEBSTER, OF SAME PLACE.

IMPROVEMENT IN NUT AND BOLT FASTENINGS.

Specification forming part of Letters Patent No. 133,873, dated December 10, 1872.

To all whom it may concern:

Be it known that I, MALCOLM F. MCINTYER, of Girard, in the county of Erie and State of Pennsylvania, have invented a new and useful Improved Nut-Lock; and I do hereby declare that the following is a full, clear, and exact description thereof sufficient to enable those skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing making part of this specification, and to the letters and figures marked thereon.

The nature of my invention consists in the peculiar construction of the nut-locking device, and its arrangement and combination with the nut and the fish-plate or other article through which the bolt passes.

In the drawing, Figure 1 is a longitudinal section of the fish-plate; Fig. 2 is a longitudinal section of the fish-plate and rail, together with the bolt, nut, and locking device; and Fig. 3 is a perspective view, showing the nut secured in position.

A represents an ordinary screw-bolt, and B an angular nut. F is a fish-plate, perforated to allow the bolt to pass through. On one side of the perforation is a notch or depression, c^1 , which is continued along the outer

face of the fish-plate, as shown at c^2 , a sufficient distance to allow the rod D to be turned down. D represents a piece of wire, of such length and thickness as to correspond with the size of the nut, bolt, and fish-plate, and furnish sufficient strength for the purpose required.

The wire is straight when first applied, and afterward bent, as follows: The fish-plate is placed over the bolt and the wire is inserted in the notch or depression c^1 , and then bent at a right angle, so as to occupy the depression c^2 . The nut is then placed on the end of the bolt and screwed home, and the wire again bent at a right angle until it is in contact with the nut, as shown, thus effectually preventing the nut from turning.

I claim as new and desire to secure by Letters Patent—

The fish-plate F, having the recesses c^1 c^2 , in combination with the bolt A, nut B, and bent wire D, as shown and described.

The above specification of my invention signed by me this 31st day of July, 1872.

M. F. MCINTYER.

Witnesses:

EDM. F. BROWN,
J. V. MCINTYRE.