

T. J. BYRNE.  
Rope-Clutches.

No. 155,492.

Patented Sept. 29, 1874.

Fig. 1.

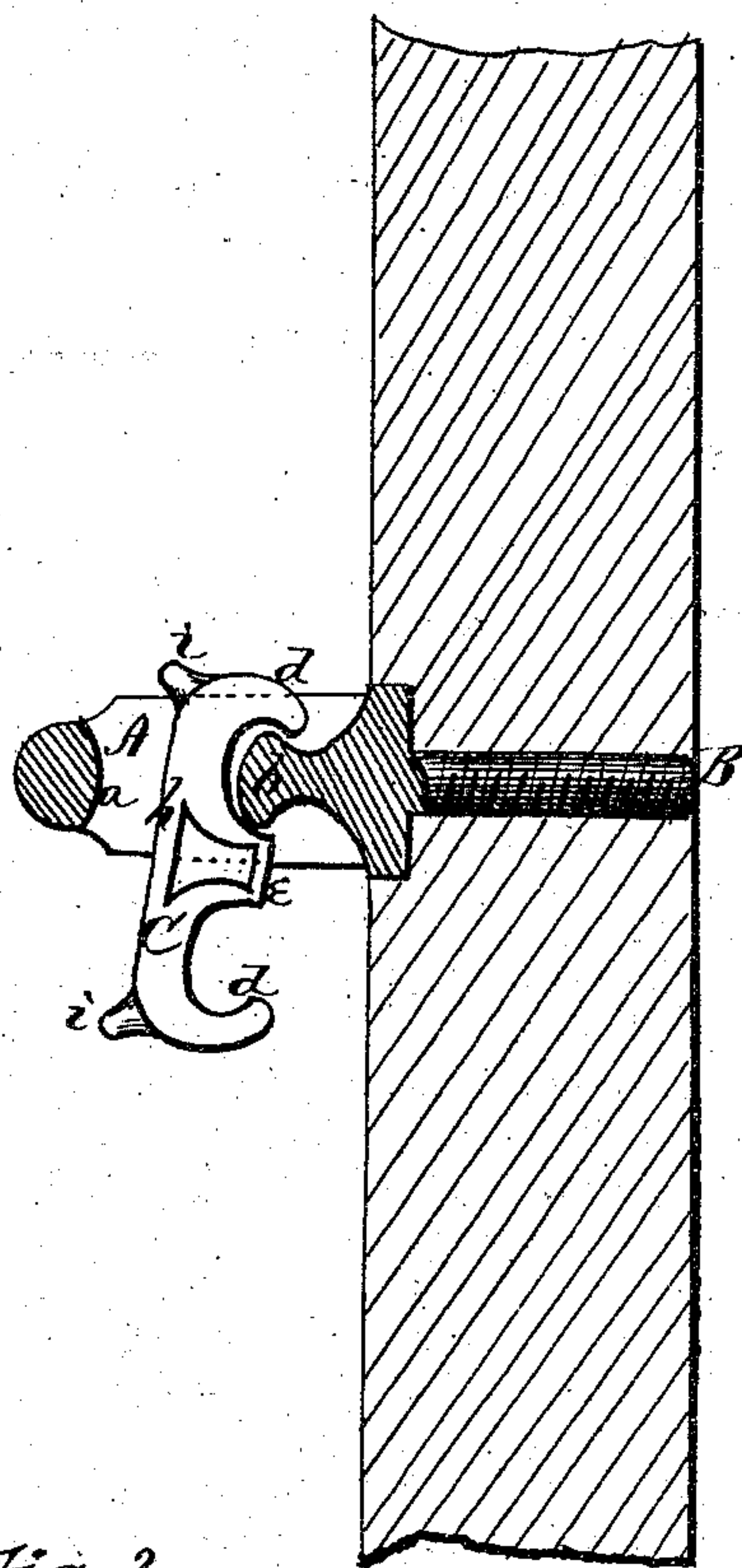
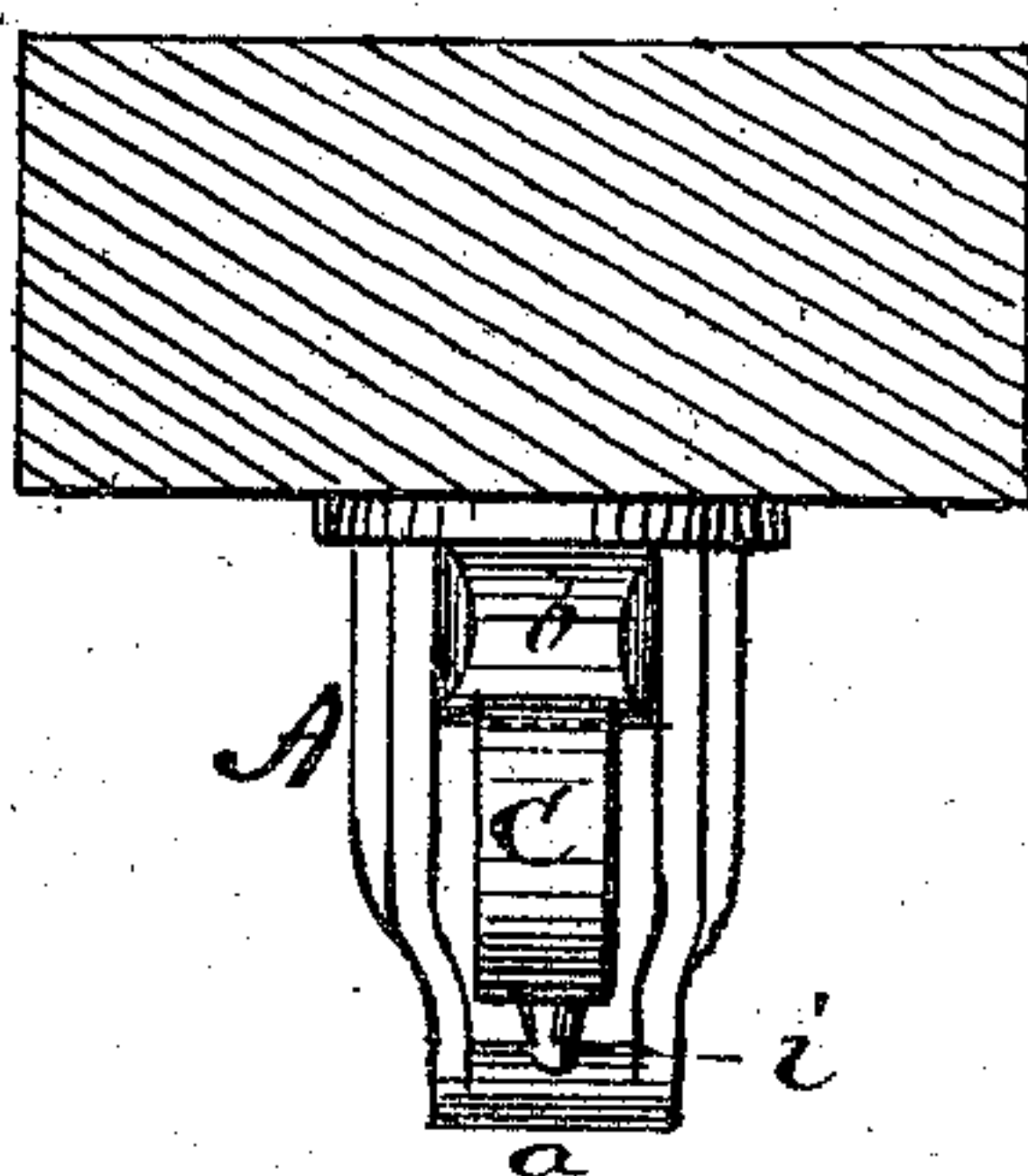


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

THOMAS J. BYRNE, OF ERIE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF HIS  
RIGHT TO GEORGE M. SNOW, OF SAME PLACE.

## IMPROVEMENT IN ROPE-CLUTCHES.

Specification forming part of Letters Patent No. **155,492**, dated September 29, 1874; application filed  
June 22, 1874.

*To all whom it may concern:*

Be it known that I, THOMAS J. BYRNE, of Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Rope-Clutches; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a rope-clutch or line-holder, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal section of my clutch or holder, and Fig. 2 is a plan view of the same.

A represents a metal frame of any suitable dimensions, formed or provided at its inner end with a screw, B, to be fastened in a post, wall, or any place where needed. The sides of the frame A are slightly tapering, and terminate in a cross-bar, *a*, at the outer end, which cross-bar is rounded on its inner side, as shown. From the inner end extends a projection, *b*, into the frame, which projection is rounded on its surface and hollowed out on both sides. In this frame is placed a bar, C, provided on one side at each end with a hook, *d*, and in the center with a projection, *e*, as shown in Fig. 1. On the opposite side of the

bar at each end is a lug, *i*, and the side of the bar between these lugs is made slightly concave, as seen at *h*.

The rope is passed through the frame A between the cross-bar *a* and the bar C, this latter being placed over the projection *b* in the frame—that is, said projection extending in between one of the hooks *d* and the center piece *e*—the longest end of the bar being in the direction of the strain. After the rope has been pulled as tight as desired, it is held simply by the strain or tension of the rope causing the projection or lug *i* to clamp it against the cross-bar *a*. It is loosened by simply raising the long end of the bar C. By shifting the bar C the strain may be had in the opposite direction.

This device is simple, strong, and durable, not liable to get out of order, and can be applied anywhere where needed.

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

The combination of the frame A, provided with screw B, rounded cross-bar *a*, and projection *b*, with the movable bar C, provided with hooks *d d*, lugs *i i*, and center projection, *e*, all substantially as and for the purposes herein set forth.

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

THOMAS J. BYRNE.

Witnesses:

N. J. CLARK,

J. C. STURGEON.