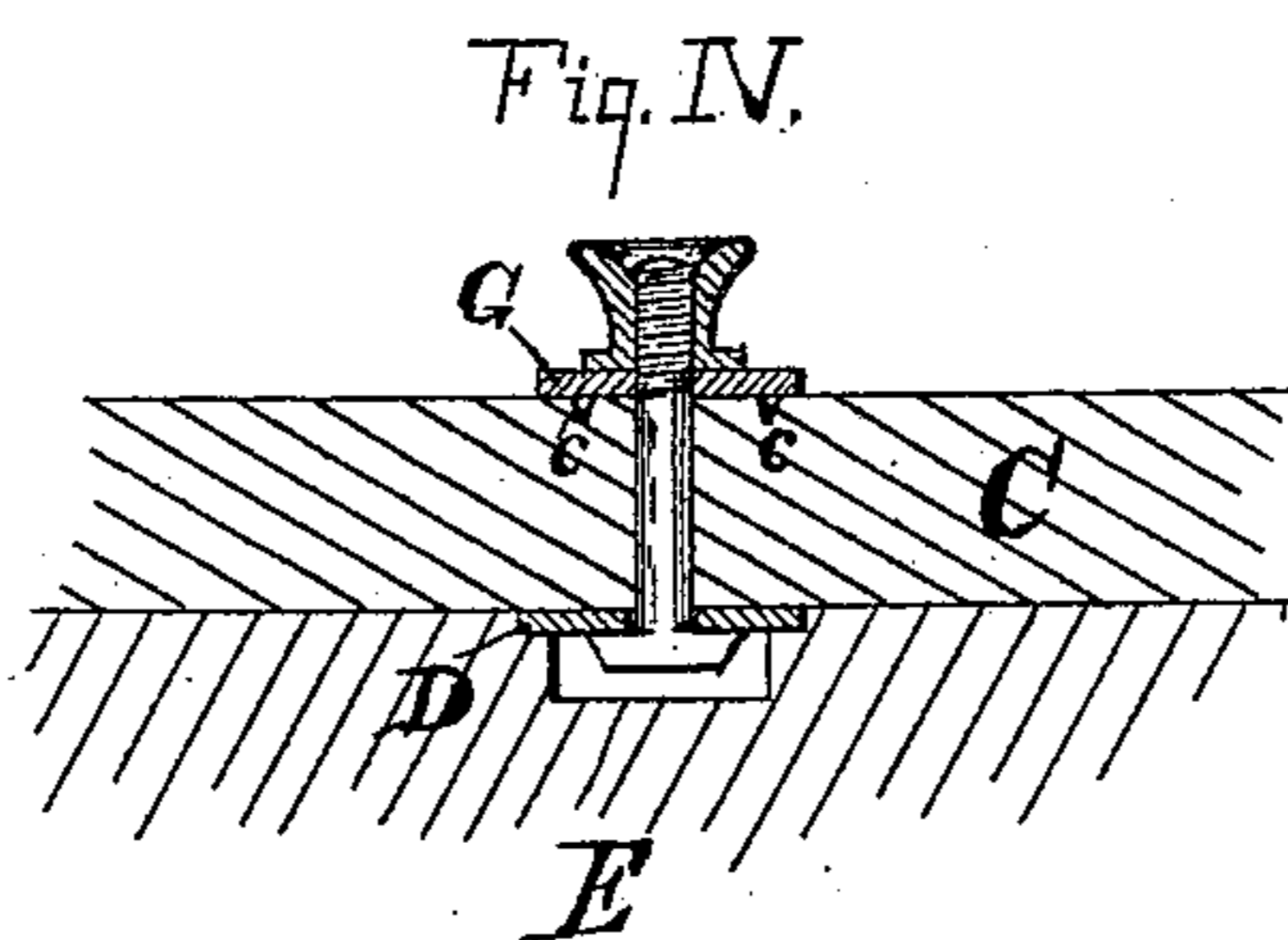
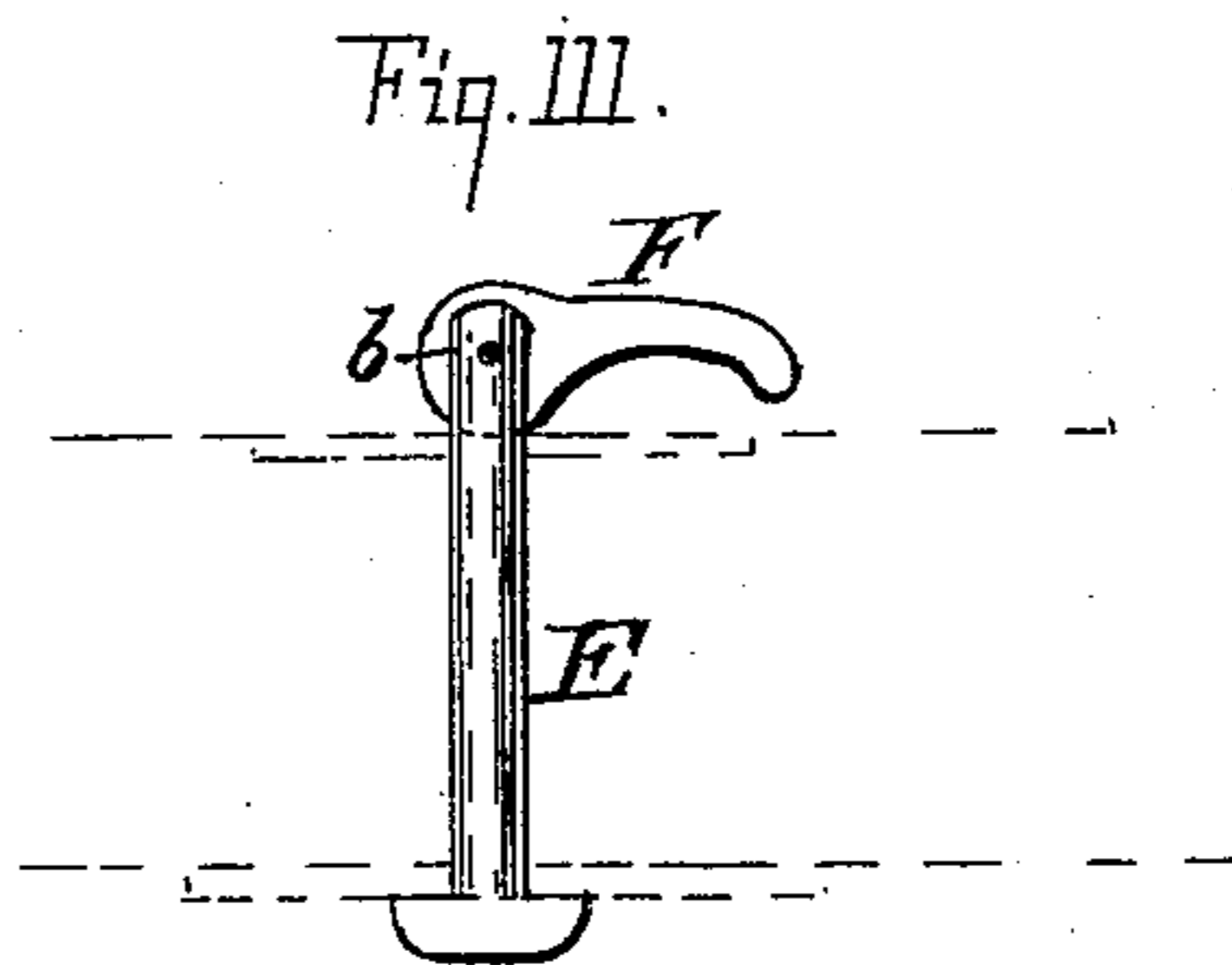
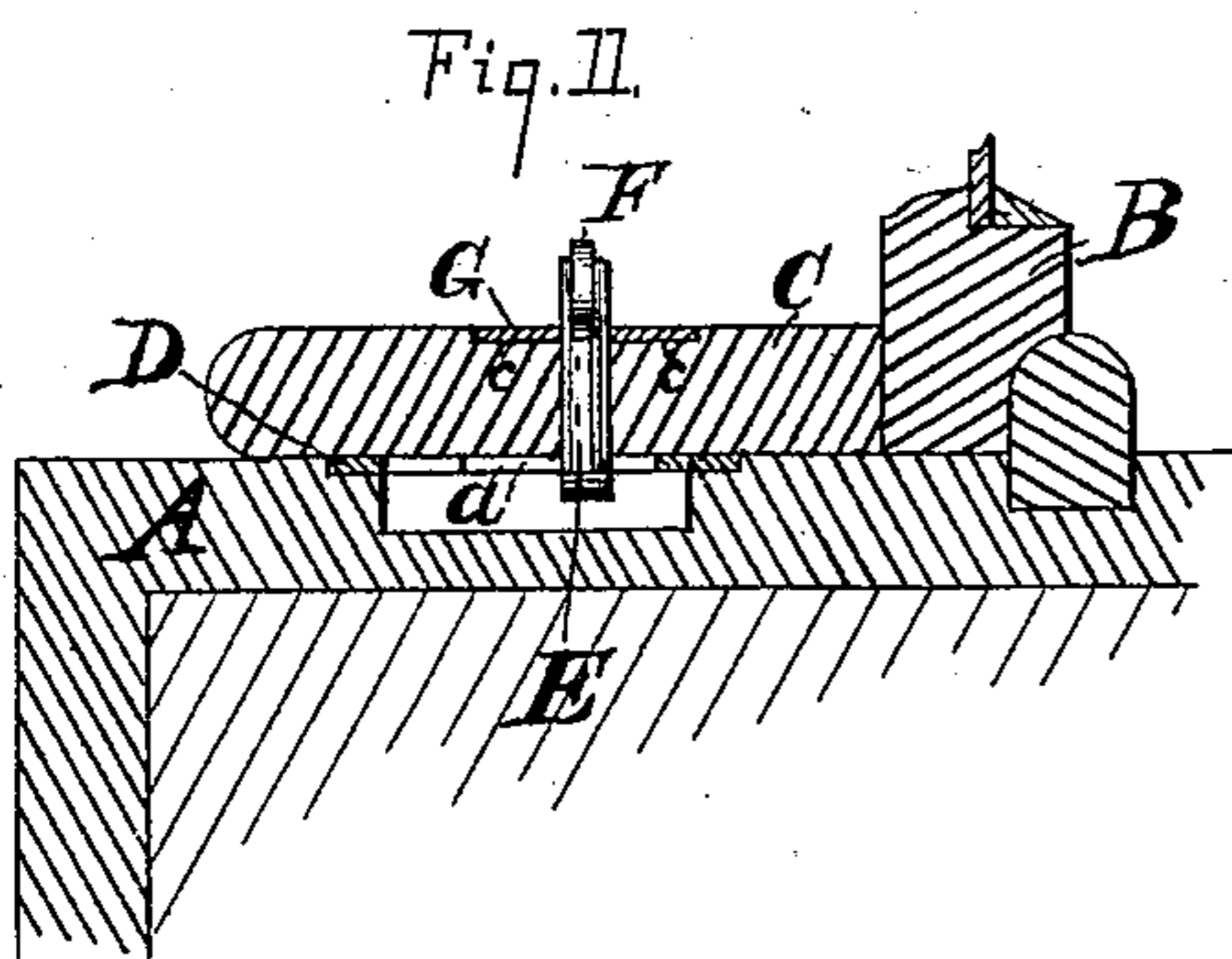
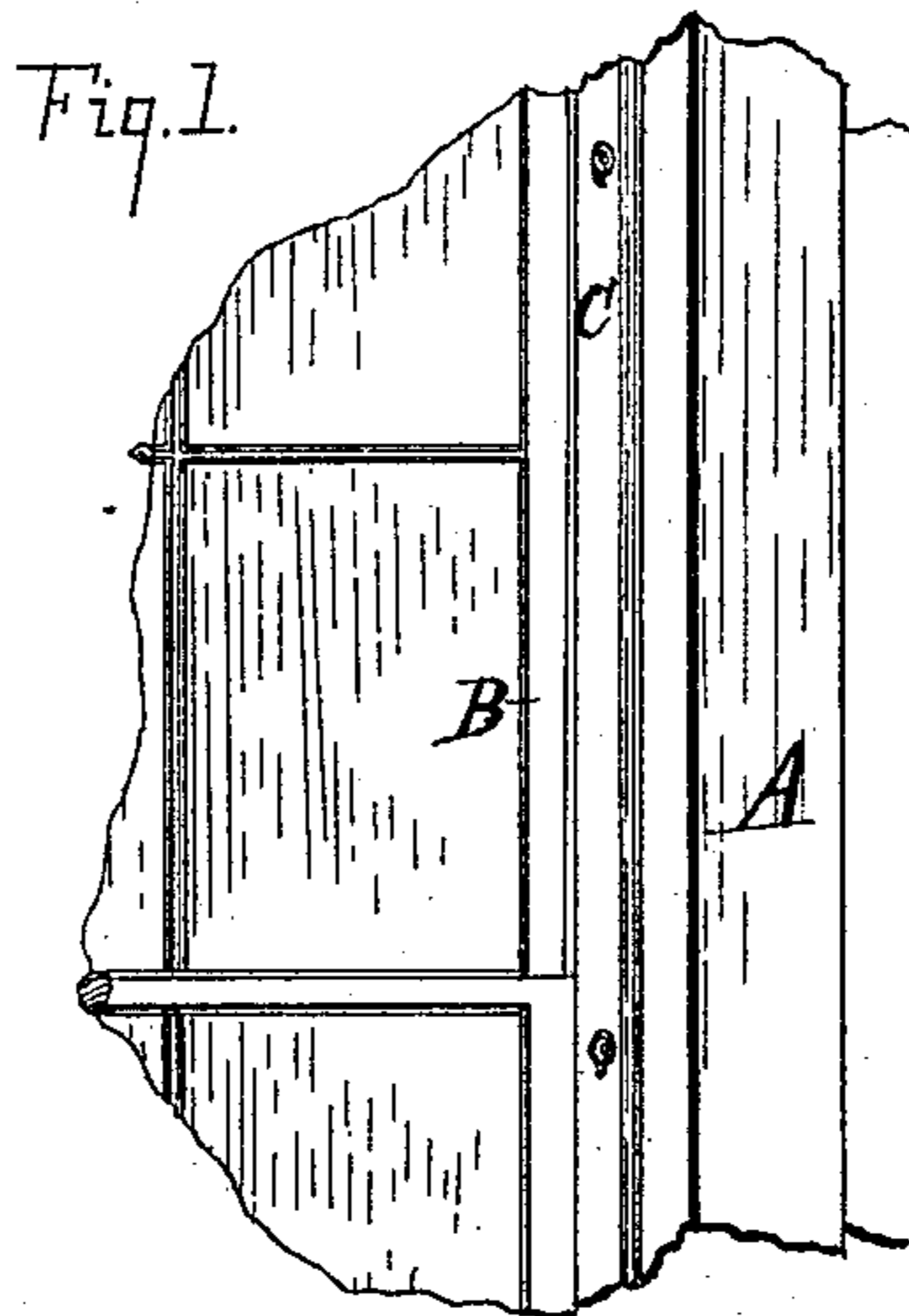


(No Model.)

M. A. CUTTER.  
WINDOW BEAD STOP.

No. 397,837.

Patented Feb. 12, 1889.



Witnesses

*W. Burroughs*  
*S. M. Chandler*

Inventor,

*Martin A. Cutter*  
By *M. E. Chandler*  
Attorney

# UNITED STATES PATENT OFFICE.

MARTIN A. CUTTER, OF ALLEGHENY, PENNSYLVANIA.

## WINDOW-BEAD STOP.

SPECIFICATION forming part of Letters Patent No. 397,837, dated February 12, 1889.

Application filed August 20, 1888. Serial No. 283,174. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN A. CUTTER, a citizen of the United States, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Bead-Stop Clamps; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to an improvement in that class of devices employed for the purpose of retaining in place the strip of wood commonly known as a "bead-stop," used to retain window-sashes in place. The device may therefore be called a "bead-stop clamp," and is so constructed as to allow the stop to be readily removed when it is desired to remove the sash in cleaning the windows, or adjusted to or from said sash in order to tighten or loosen the joint so that the windows may always be kept from rattling and from the admission of cold air around their margins. To accomplish these results, the window-frame in line with the bead-stop is provided with two or more slotted plates or keepers, which receive the heads of the bolts that pass through the stop and are provided at their ends with a cam which acts upon a bearing-plate secured to the outer surface of the bead-stop. Heretofore, so far as my knowledge extends, these stops have been held in place by nails or screws driven through the stop into the frame.

In the drawings which accompany this specification, Figure I is a perspective view of part of a window frame and sash showing the clamp in use. Fig. II is a longitudinal section through the bead-stop in line with one of the clamps, illustrating the construction and operation of the same. Fig. III shows the clamp detached, and Fig. IV shows a modification.

In the figures, A is the window-frame, and B the sash; C, the stop-bead. These parts are of ordinary form, requiring no special construction to fit them for use with the clamp. The clamp consists of a receiving-plate or keeper, D, provided with a slot, *a*. This plate is secured to the frame by screws, and is embedded therein so that its outer surface is

flush with that of the frame. The bolt E is provided with a T-shaped head on one end, which head is passed through the slot, and when turned so that the projections upon each side forming the head are under the plate D at each side of the slot and at right angles thereto, it is firmly held and cannot be drawn out; but when the bolt is turned so as to bring the projections forming the head in line with the slot it may readily be withdrawn. The end of the bolt opposite the head is provided with a slot, *b*, in which is pivoted the cam F. Holes are formed through the bead-stop to receive the bolts, and a wear-plate, G, correspondingly pierced, is attached to the outside of the bead-stop projections *c c*, which enter the wood of the stop and hold the plate in position. The cam F bears upon this plate, thereby saving the wood from being indented by the cam, as it otherwise would be.

The method of operating these devices is very simple. If it be desired to remove the stop-bead, the cams are loosened and the bolts turned to bring their heads parallel with the slots in the keepers. The stop may then be removed without difficulty, taking the bolts and cams with it. To replace the stop, the bolt-heads are inserted in the slots of the keepers, the bolts given a quarter-turn to cause their heads to engage with said keepers, the stop moved into position, and the cams tightened. When it is desired to simply adjust the stop with relation to the sash, it is only necessary to loosen the cams and move the stop into the desired position.

I am aware that adjustable bead-stop clamps have been constructed, the stop being held in place by screws or bolts, and do not broadly claim, therefore, a clamp so constructed.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent, the following:

A bead-stop clamp for windows, consisting of a slotted keeper, D, embedded in the window-frame, a T-headed bolt, E, a cam, F, pivoted in said bolt, and a wear-plate, G, embedded in the stop, all combined and arranged substantially as and for the purpose set forth.

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

MARTIN A. CUTTER.

Witnesses:

S. M. CHANDLER,  
GEO. S. BROCK.