

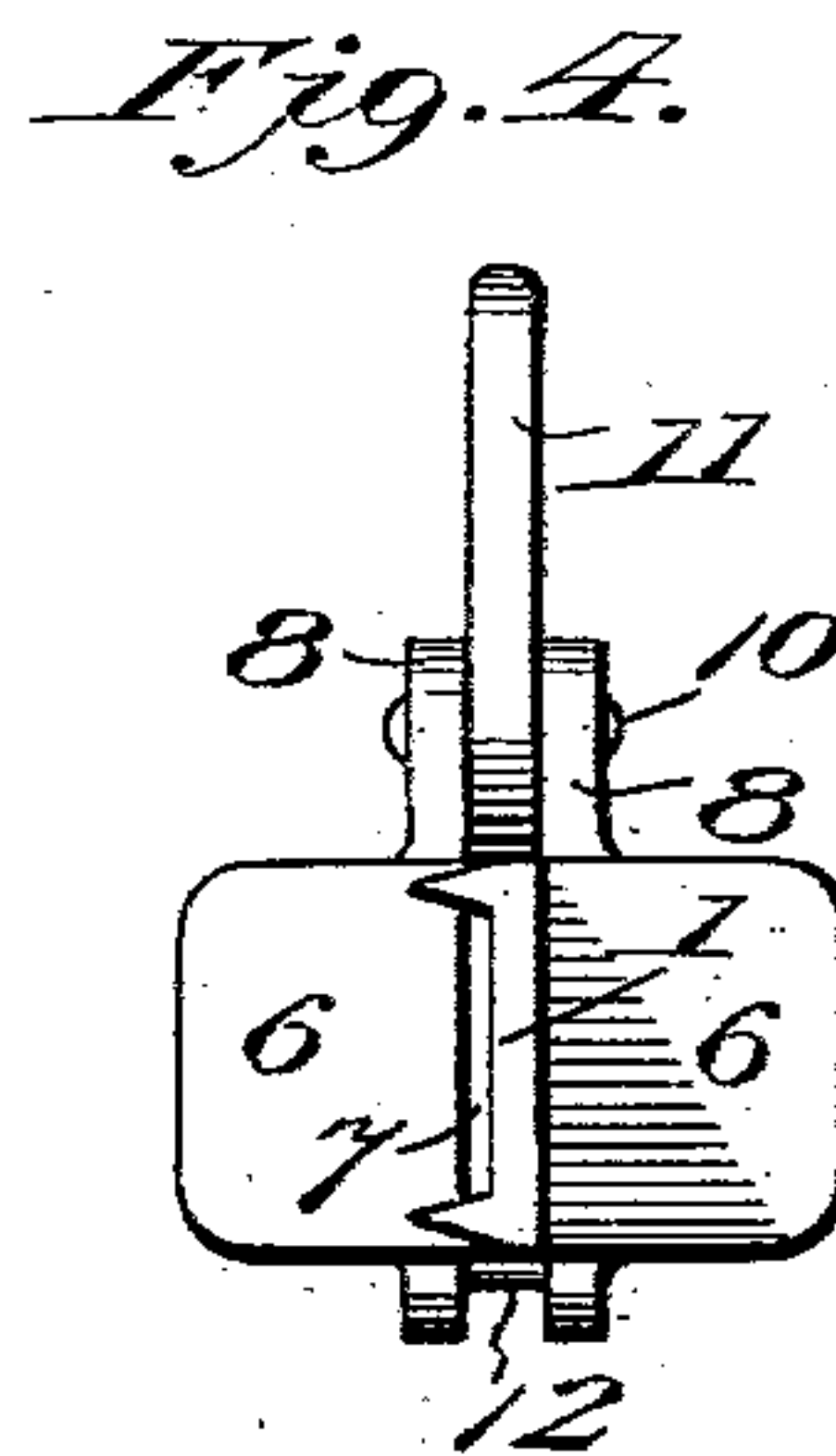
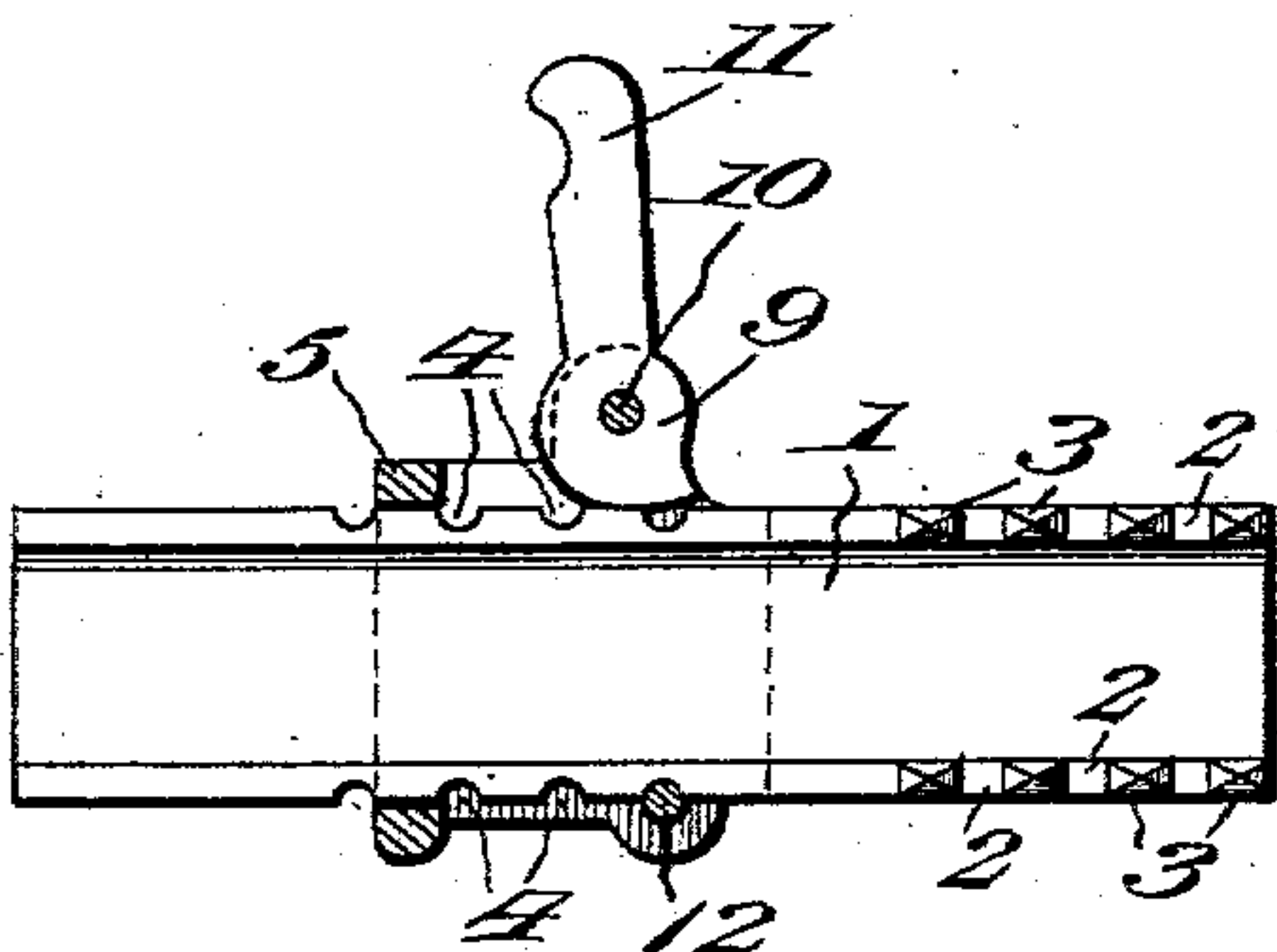
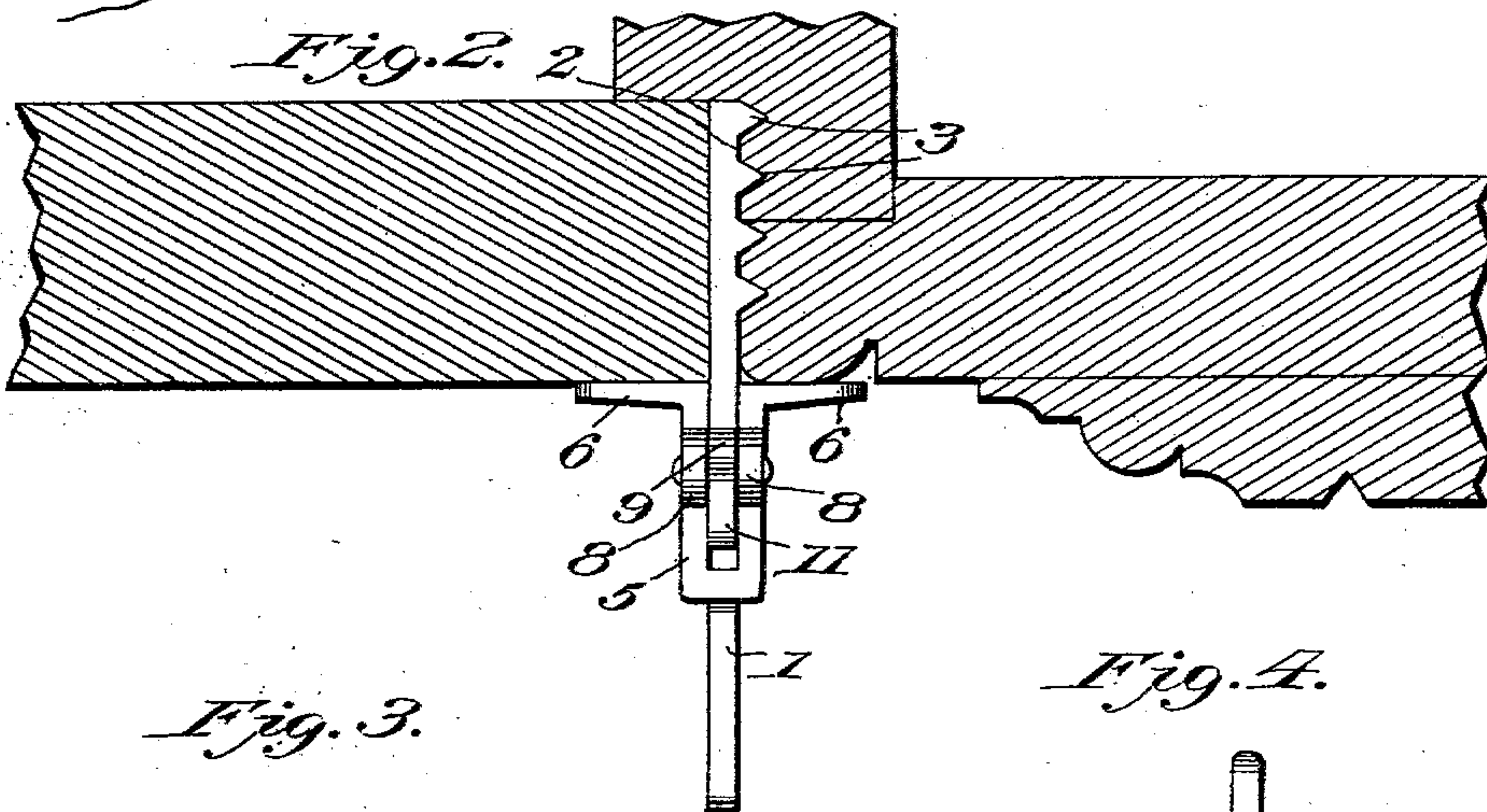
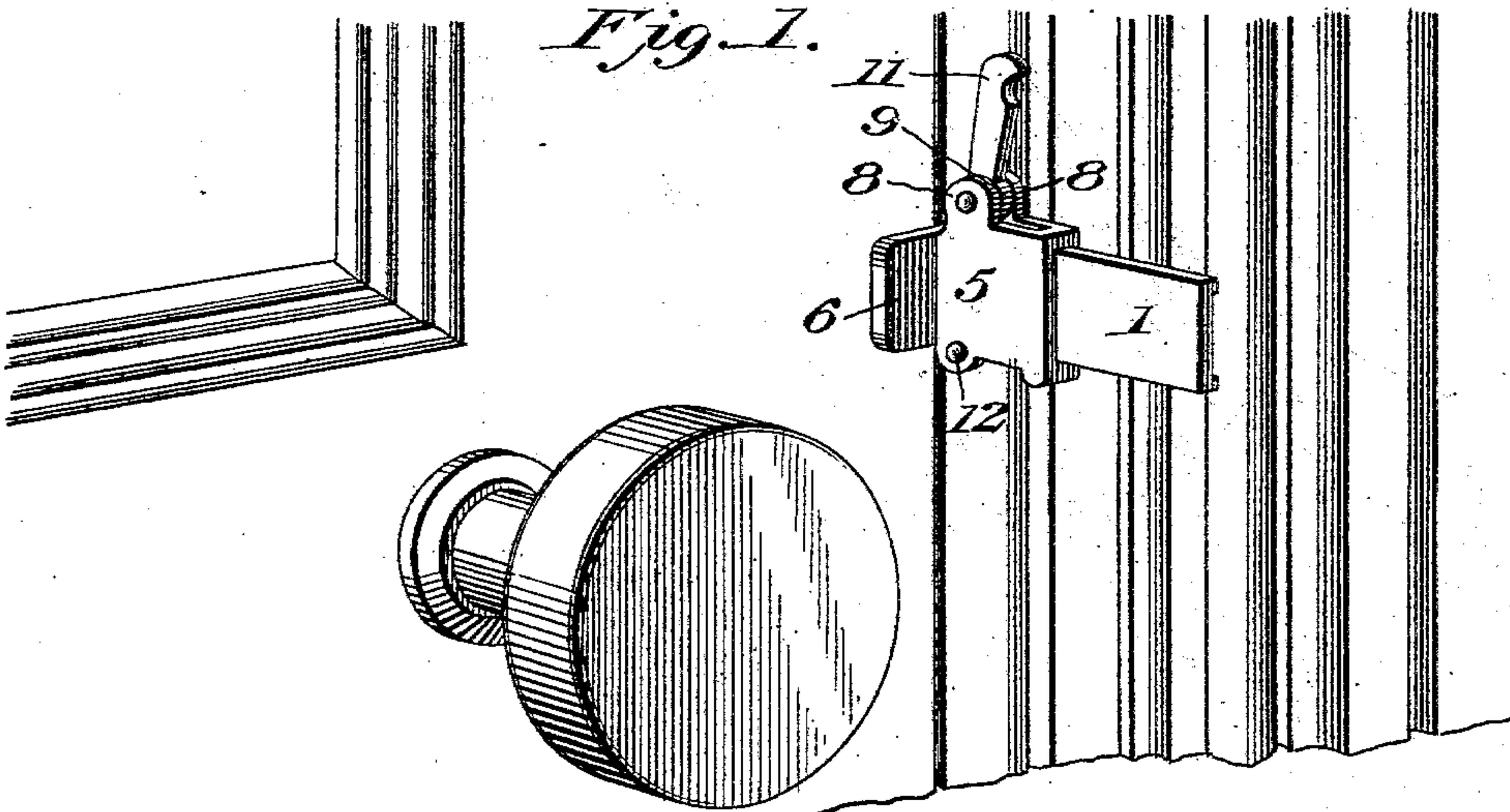
No. 716,707.

Patented Dec. 23, 1902.

W. N. HARING.
DOOR SECURER.

(Application filed July 26, 1902.)

(No Model.)



Witnesses

Edwin G. McKee
Chas. S. Hoyer.

Inventor
William N. Haring
By Victor J. Evans
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM N. HARING, OF NYACK, NEW YORK.

DOOR-SECURER.

SPECIFICATION forming part of Letters Patent No. 716,707, dated December 23, 1902.

Application filed July 26, 1902. Serial No. 117,103. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM N. HARING, a citizen of the United States, residing at Nyack, in the county of Rockland and State of New York, have invented certain new and useful Improvements in Door-Securers, of which the following is a specification.

This invention relates to a door and sash securer that can be applied conveniently without the aid of tools at any position desired to secure it to a window or door frame and firmly and reliably lock the door or window sash closed and resist opening of the latter until the improved lock is operated to release the locking member thereof.

In the drawings, Figure 1 is a perspective view of a portion of a door and its frame, showing the improved lock applied thereto in operative position. Fig. 2 is a horizontal section through a portion of a door and its frame and illustrating the improved lock in top plan view in operative position in relation to the door and frame. Fig. 3 is a longitudinal vertical section through the improved lock. Fig. 4 is a rear end elevation of the same.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates a supporting-plate of elongated form having upper and lower laterally-projecting flanges 2, with spike teeth or spurs 3 projecting outwardly therefrom at their inner extremities. The upper and lower edges of the plate 1 at a point intermediate of the ends of the latter are formed with a plurality of notches or recesses 4 to adapt the said plate for reversible use and render it capable of being applied in either a right or left position to accommodate doors opening in different directions and also for practical service in relation to either side of a window-sash.

Movably mounted on the plate 1 is a slide-head 5, having a longitudinally-disposed opening therethrough for the reception of the plate 1 and upper and lower slots communicating with said opening to expose the upper and lower edges of the supporting-plate for a purpose which will be presently set forth. The head or slide 5 has a transversely-extending locking-plate 6 at its inner end, which is preferably formed integral with the said head and

has a slot 7 through the center thereof to accommodate the adjustment or movement of the plate 1, which projects beyond the plate 6. The head 5 also has upstanding ears 8 at its inner end, between which is pivotally mounted a cam-head 9, eccentrically held by a pivot-pin 10, so that when in a certain position a portion of the edge of the cam will tightly impinge against the upper edge of the plate 1 and force the entire plate downwardly and lock the said head 5 in immovable position on the plate 1. The cam-head 9 has an operating bar or handle 11, and when this head is in locking position or impinges firmly against the upper edge of the plate 1 the bar or handle 11 stands in upright position, as clearly shown in Figs. 1 and 3. At the bottom of the inner end of the head 5 is a locking element 12 in the form of a transverse pin to engage the recesses 4 in the upper and lower edges of the plate 1 to prevent the latter from moving longitudinally through the head 5 when the cam-head 9 is turned to firmly impinge against the upper edge of the said plate 1.

In applying the improved lock in operative position—as, for instance, to a door-frame—the supporting-plate 1 is pressed against the wall of the door-frame, which is parallel with the edge of the door when the latter is closed, and the spurs 3 are caused to become firmly embedded in the said frame, as clearly shown by Fig. 2. It will be understood that when the door is closed in this preliminary application of the supporting-plate 1 the spurs 3 will be forced into the wood of the door-frame and said supporting-plate, which has been forced backwardly to the full extent of the mortise or seat for the door in the frame, will be held in secure applied position, particularly after the door is closed. After the plate 1 is thus applied and the door closed the head 5 is slipped over the plate 1, the cam-head 9 being first loosened to permit this movement of the head 5. After the locking-plate 6, carried by the head 5, has been closely pressed against a portion of the adjacent edge of the door and the door-frame, as clearly shown by Fig. 2, the cam-head 9 is turned through the medium of the bar or handle 11 to tightly impinge against the upper edge of the plate 1, and thereby force the notch in the lower edge of

said plate 1 nearest to the locking element 12 over the latter, and thereby prevent movement of the head 5 on the plate 1 and at the same time securely lock the door against movement.

The improved lock is shown applied to a door opening toward the left, or one having the hinges on the left; but when it is desired to use the lock on a door opening in a reverse direction the plate 1 is reversed in the head 5 to bring the spurs or teeth 3 outwardly to engage the door-frame.

The improved lock is also equally well adapted for use on sash or other devices where applicable, and when not in use it may be stored or carried in the pocket of the user or in other devices which may be conveniently accessible. The improved lock is also particularly adapted for use by travelers for securing the doors leading to apartments of hotels and other temporary places of residence, and by its use the said lock will replace the ordinary form of door-lock with much more security and effectiveness in preventing a door from being opened from the exterior of an apartment by unauthorized persons or those having nefarious intentions.

Having thus fully described the invention, what is claimed as new is—

1. In a lock of the class set forth, the combination of a reversible supporting-plate having spurs at the upper and lower edges of one extremity thereof and upper and lower notches at an intermediate point, a head slidable on the said supporting-plate and provided with a transversely-extending locking-plate and an adjacent lower locking element to engage the notches in the said supporting-plate, and a cam-head movably mounted in the upper portion of the inner end of the said head.

2. In a lock of the class set forth, the combination of a supporting-bar having laterally-projecting spurs at one extremity and notches in an intermediate portion thereof, a head slidably mounted on the supporting-bar and provided with a locking-plate at its inner end and also having a transversely-extending locking-pin to engage the said notches, and a cam-head mounted in the said sliding head and adapted to bear upon one edge of the supporting-plate.

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

WILLIAM N. HARING.

Witnesses:

E. L. BALDWIN,
W. K. COLSEY.