

No. 698,282.

Patented Apr. 22, 1902.

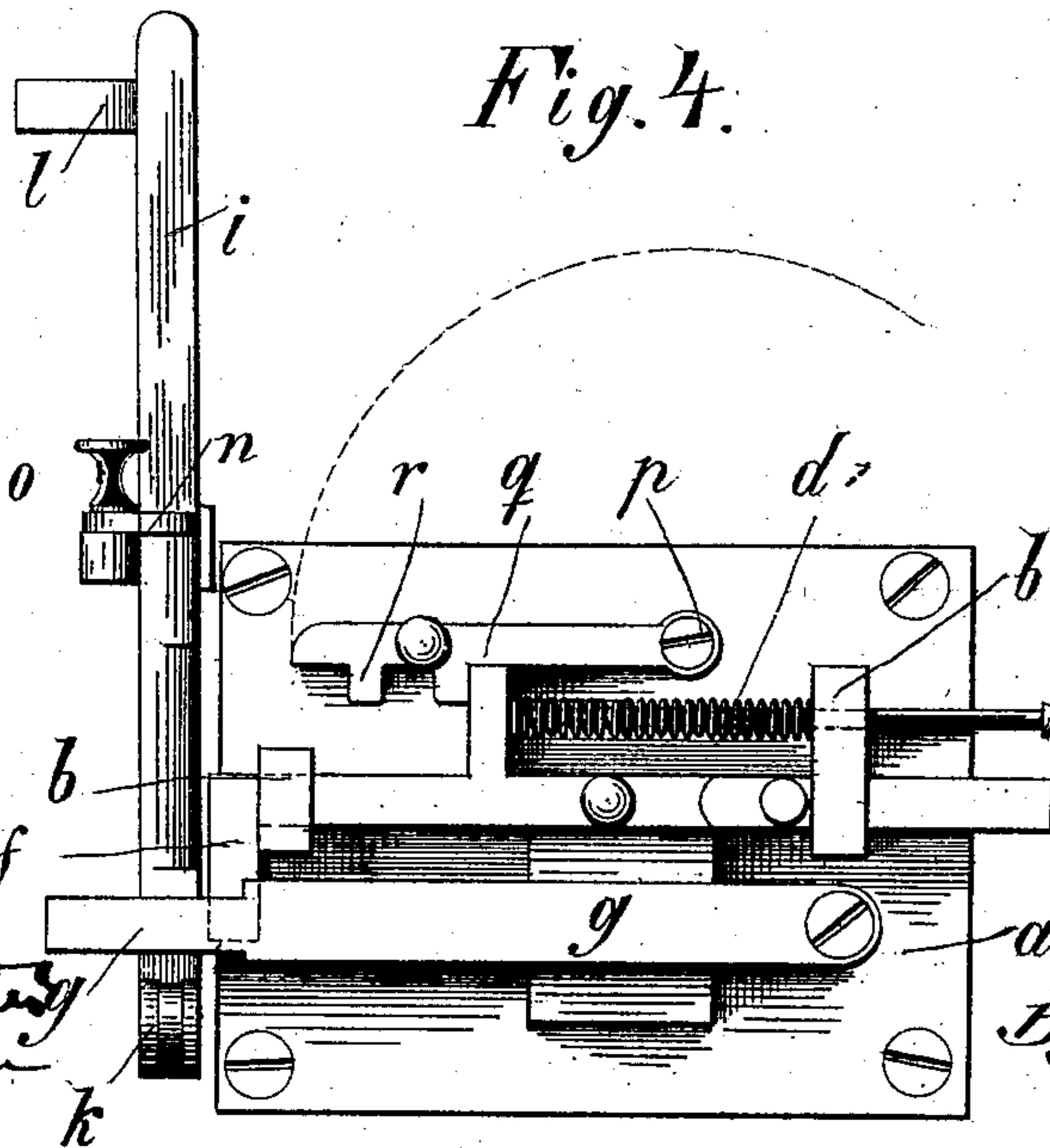
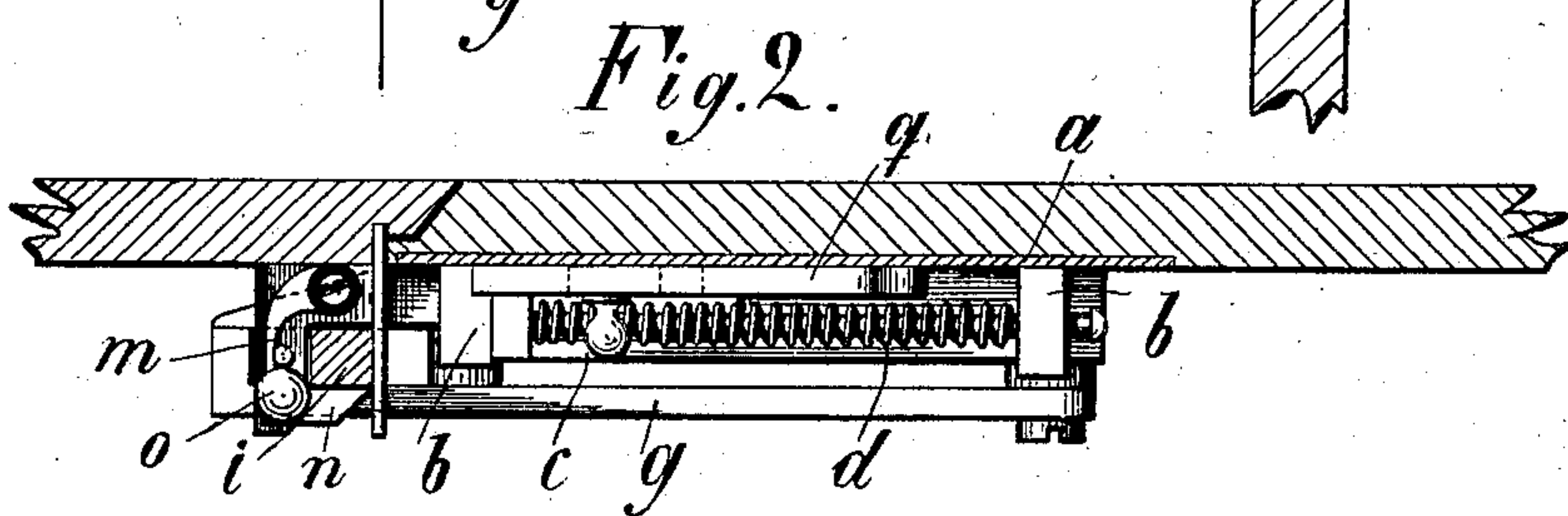
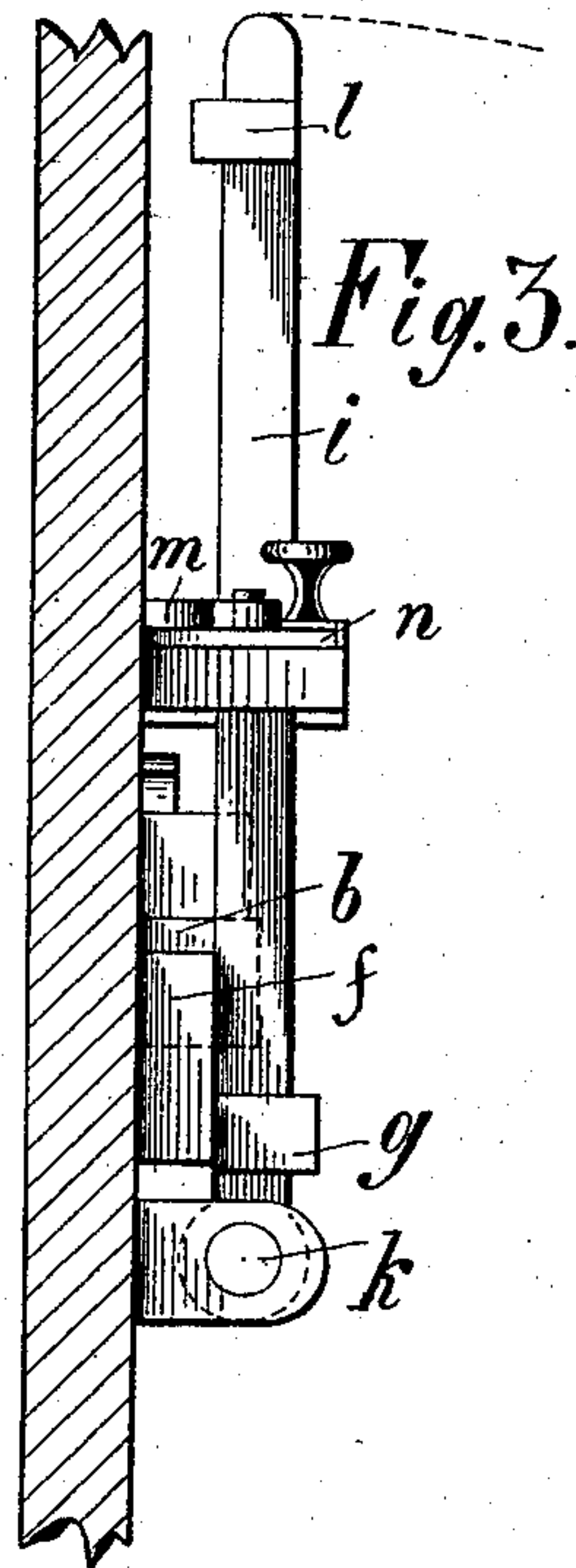
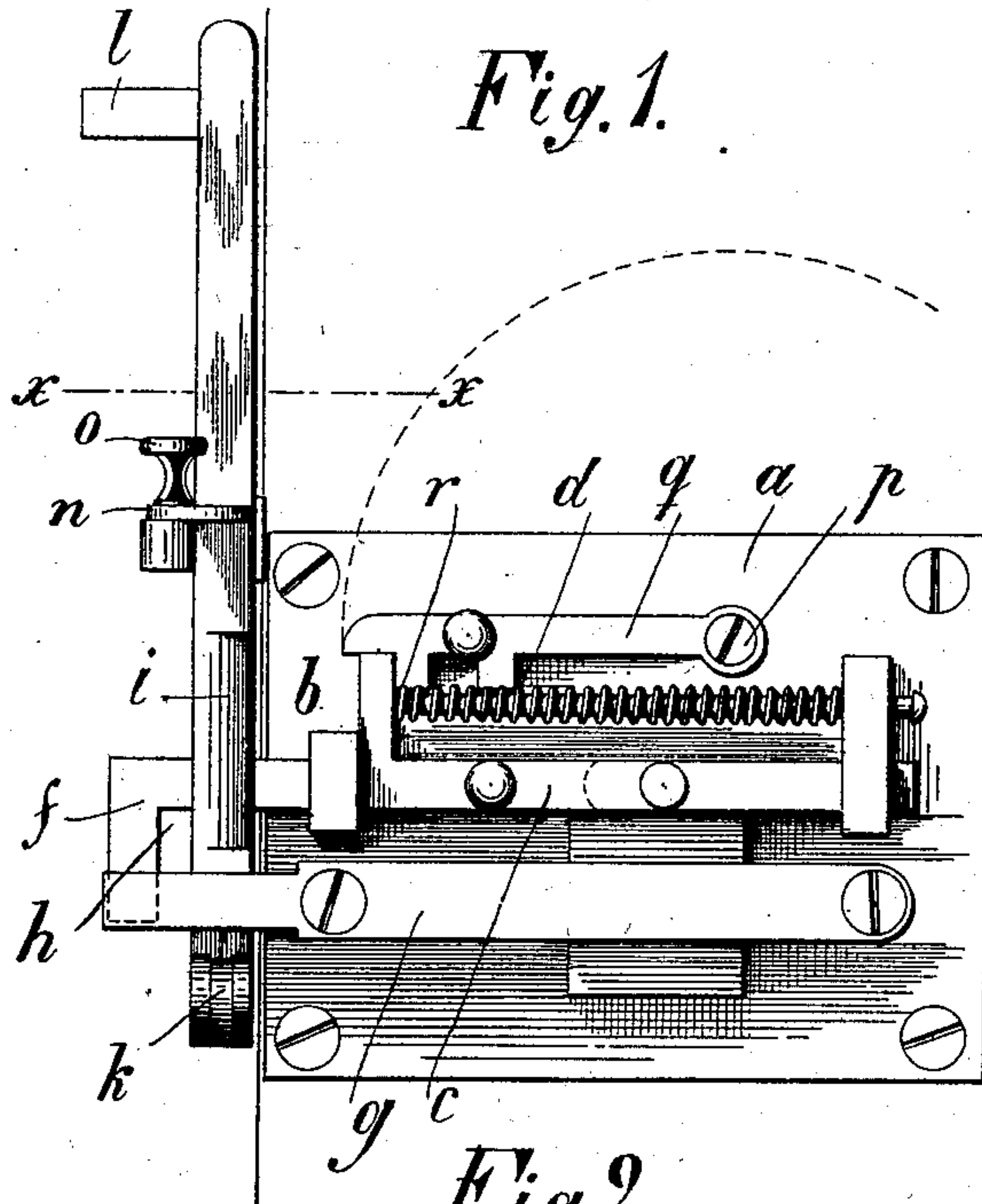
J. H. HOYER.

FASTENING FOR DOORS OR SUCH LIKE.

(Application filed July 27, 1901.)

(No Model.)

2 Sheets—Sheet 1.



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2 Sheets—Sheet 2.

Fig. 5.

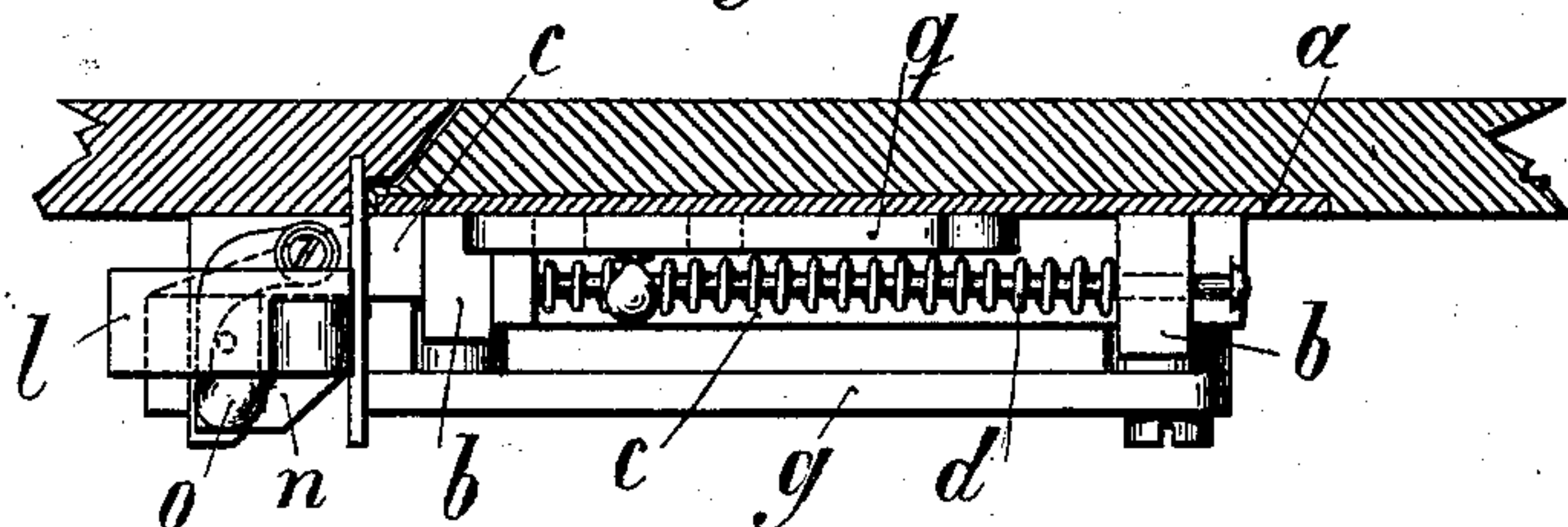


Fig. 7.

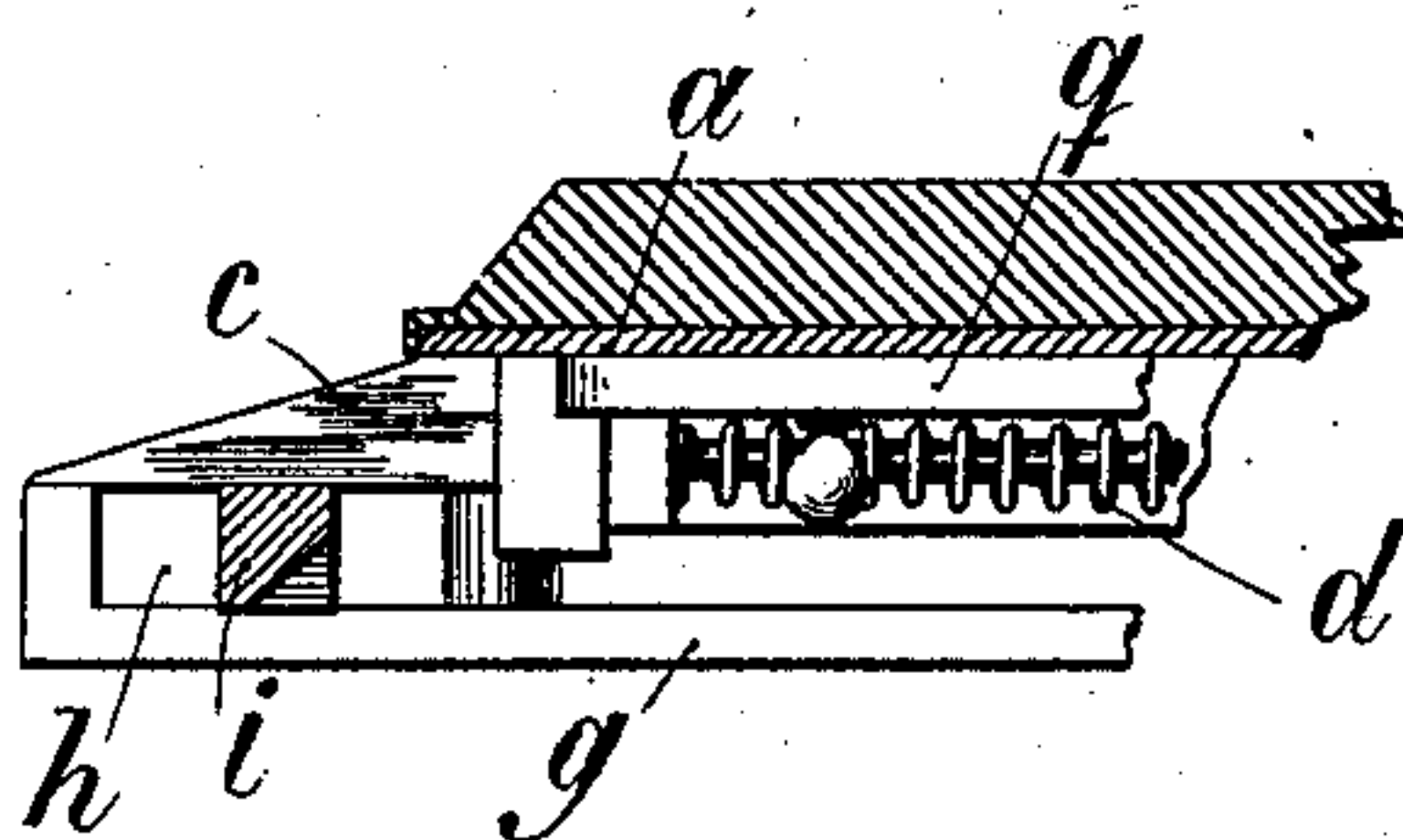
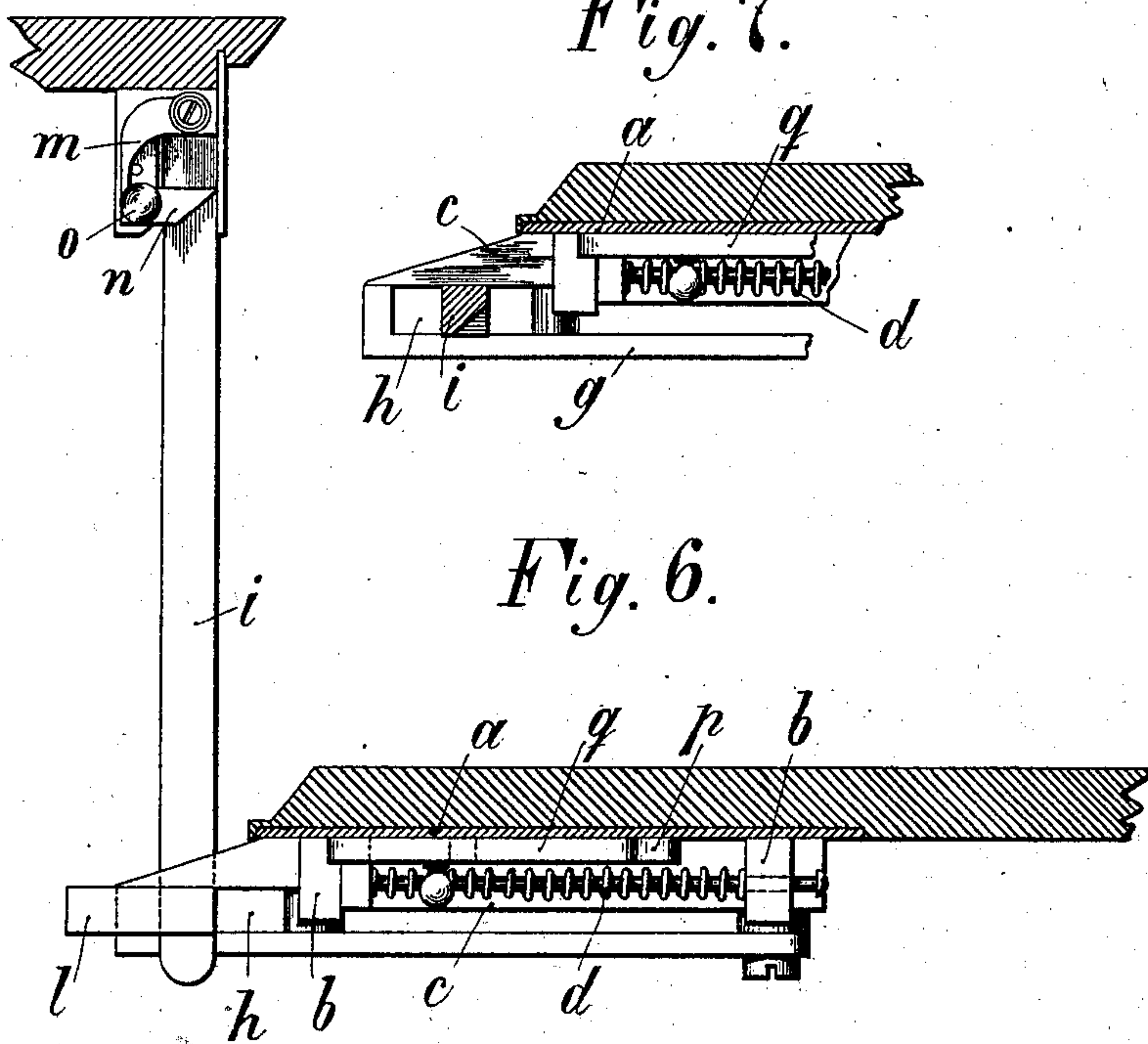


Fig. 6.



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UNITED STATES PATENT OFFICE.

JULIUS HENRIK HØYER, OF AALBORG, DENMARK.

FASTENING FOR DOORS OR SUCH LIKE.

SPECIFICATION forming part of Letters Patent No. 698,282, dated April 22, 1902.

Application filed July 27, 1901. Serial No. 70,003. (No model.)

To all whom it may concern:

Be it known that I, JULIUS HENRIK HØYER, a subject of the King of Denmark, residing at Aalborg, in the Kingdom of Denmark, have invented certain new and useful Improvements in Fastenings for Doors or Such Like, of which the following is a specification.

My present invention relates to a fastening for doors and the like; and it consists of the peculiar construction and arrangement of parts hereinafter described.

The object of the invention is to provide a fastening by means of which a door or the like may be secured either in a closed position or partially opened.

In the accompanying drawings, illustrating my invention, Figure 1 represents the fastening in front elevation, shown in the closed position. Fig. 2 is a top view showing the latch-lever in section on the line $x x$ of Fig. 1. Fig. 3 is a side elevation of Fig. 1. Fig. 4 is a front elevation of the fastening in an open position. Fig. 5 is a top view of the fastening in the position shown in Fig. 1. Fig. 6 is a similar view showing latch-lever in the position it occupies when the door is partially open, and the fastening accordingly serves the purpose of a safety-chain. Fig. 7 represents a detail.

The fastening consists of a base-plate a , on which are provided the guides b , in which slides a bolt c , acted on by the spring d . At the outer or fastening end this bolt is given a hook shape, as shown at f . Below the bolt c is provided a stop-plate g , which forms with the hooked end of the bolt c an eye h . This eye h serves to hold a latch-lever i in the closed position of the bolt c . This lever i is in the present construction shown divided at k and is provided at its free end with a projecting piece l . The latch-lever is held in a vertical position, as shown in Fig. 3, by a spring-catch n , which is released by means of the button o . The catch n and the lever i are mounted on the side frames of the door, while the plate a is secured to the door itself. On sliding the bolt c so as to close the door the hook-shaped end f will form, as above mentioned, an eye h with the end of the stop-plate g , and through the eye thus formed passes the latch-lever i . In this position of the fastening the door is locked. If now the bolt c is pulled back, it will take the position

shown in Fig. 4, the tension of the spring d being overcome. The door is then unlocked and can be opened. By providing a catch, such as q , which turns about the pin p the bolt can be kept in its unlocked position, so that the door can be continuously opened and closed. If now the bolt c is moved into the position of locking, Fig. 1, and it is desired to secure the door in the manner of a safety-chain, it is only necessary to release the catch h , which is done, as above mentioned, by means of the button o by turning the catch on its pivot against the tension of the spring m , whereupon the lever i can be turned about its pivot k into a horizontal position, as shown in Fig. 6. In this position of the parts the projecting piece l presses against the sides of the eye h on opening the door, and thus limits the extent to which the door can be opened. Because, as just mentioned, the lever i is in a horizontal position in this case and the hook on the end of the bolt c is directed downward it is evident that the fastening cannot be released, owing to the hook f being prevented from moving back by the lever i . In order to release the fastening, it is necessary to move the lever i into its vertical position, Fig. 3, in which position it can be kept by the catch n , Fig. 2.

It will be evident from the above description that in consequence of the arrangement of the latch-lever i the fastening can only be released from the interior of the room.

If it is desired to secure the bolt c in the locked position, the above-mentioned catch q may be prolonged and provided with a second projection r , which can be moved behind a projecting part of the bolt c , and thus prevent the same from being moved out of its locked position without first raising the catch q .

The fastening may be arranged in a casing of any kind to protect the parts from dust, dirt, and such like, openings being provided for the passage of the projecting parts, such as the bolt c , the stop-plate g , and the operating-button on the catch q .

What I claim, and desire to secure by Letters Patent of the United States, is—

1. In a fastening for doors and such like the combination of a latch-lever provided with a projection at its free end and adapted

to be hinged to the side frame of the door, a catch adapted to hold the lever in a vertical position and to permit its release, a stop-plate secured to a plate adapted to be attached to the door or such like, a bolt adapted to slide in guides mounted on said plate and adapted on being moved into its closed position to form in combination with the end of said stop-plate an eye inclosing said latch-lever and a catch for holding the bolt in locked position, substantially as set forth.

2. In a fastening for doors and such like the combination of a latch-lever provided with projection at its free end and adapted to be hinged to the door-frame, a catch adapted to hold said lever in a vertical position and to permit its release, a stop-plate secured to a plate adapted to be attached to the door, a bolt adapted to slide in guides mounted on said plate and to form in combination with the end of said stop-plate an eye inclosing the said latch-lever, and a spring normally pressing said bolt into its locked position, substantially as set forth.

3. In a fastening for doors and such like the combination of a latch-lever, provided

with projection at its free end and adapted to be hinged to the door-frame, a catch adapted to hold said lever in a vertical position and to permit its release, a stop-plate secured to a plate adapted to be attached to the door, a bolt adapted to slide in guides mounted on said plate and to form in combination with the end of said stop-plate an eye inclosing the said latch-lever, a spring normally pressing said bolt into its locked position, and a catch adapted to keep said bolt in either its locking or open position, substantially as set forth.

4. A fastening device, comprising a swinging latch-lever, a spring-pressed bolt having a lateral projection at its free end, a stop-plate adapted to form with the bolt an eye to receive the latch-lever, and a locking device for said bolt, substantially as specified.

In testimony whereof I have hereunto set my hand in the presence of two witnesses.

JULIUS HENRIK HÖYER.

Witnesses:

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