

(No Model.)

C. A. SCHMIDT.

DOOR CHECK.

No. 321,645.

Patented July 7, 1885.

Fig: 1.

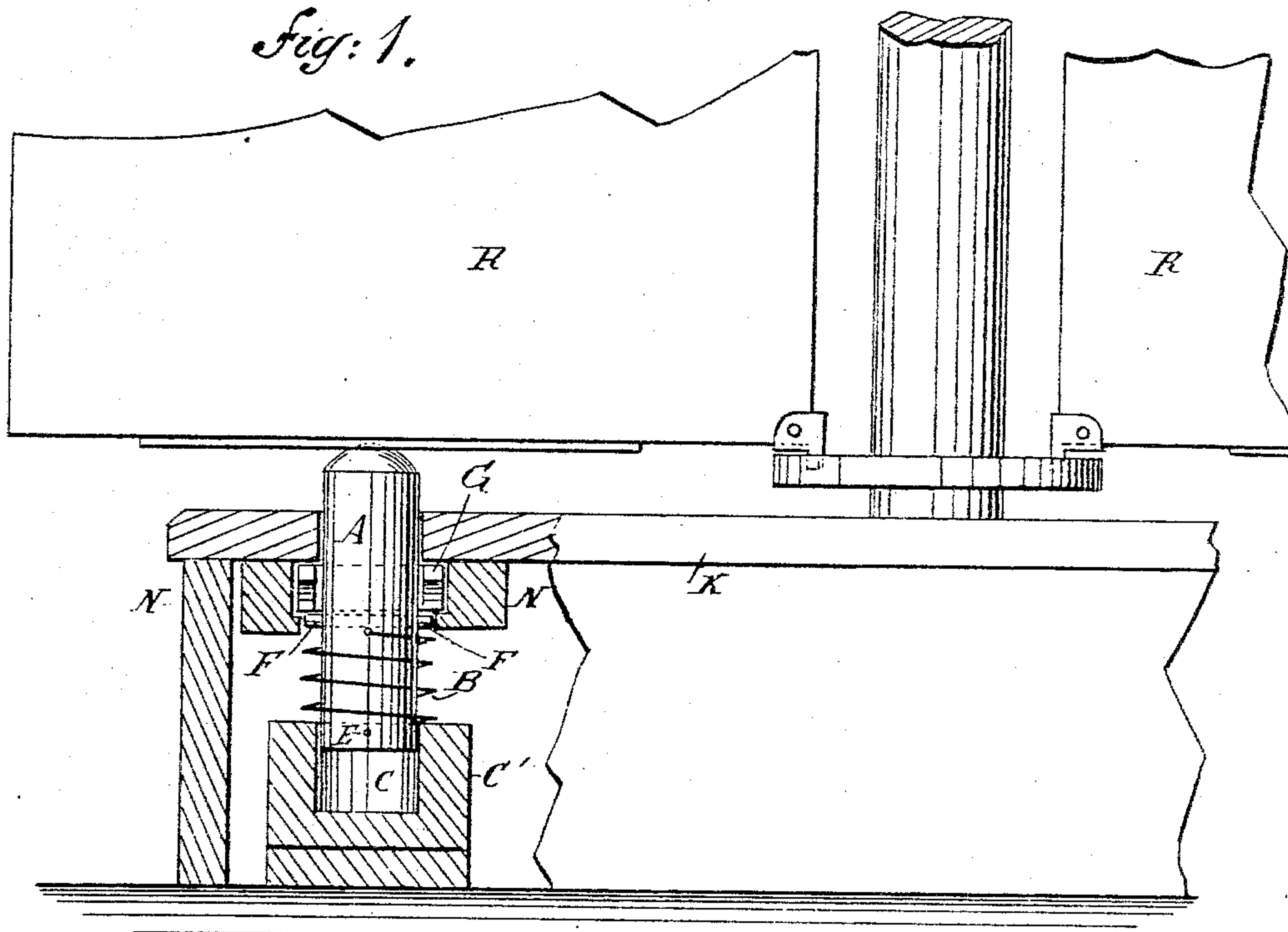
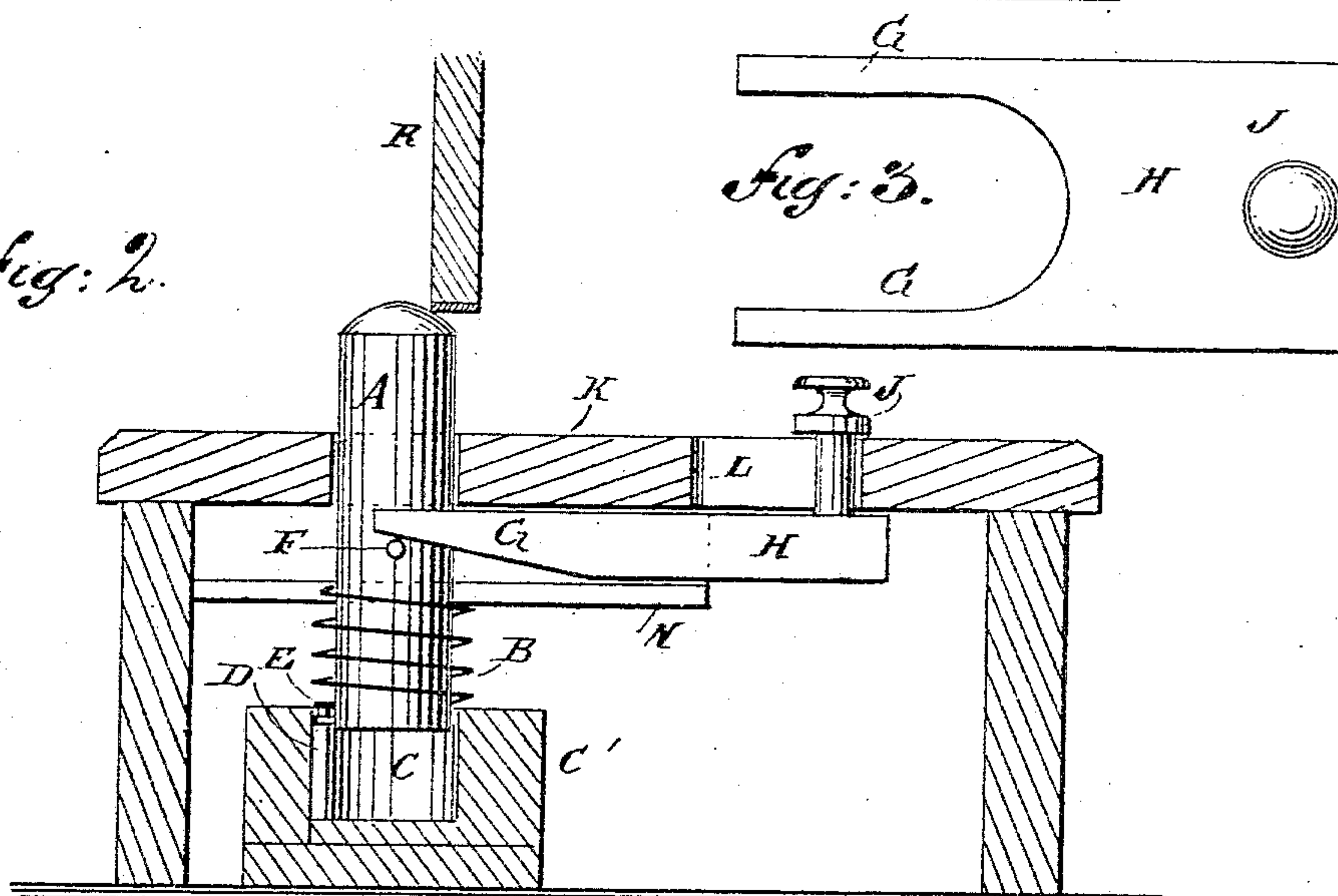


Fig: 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHRISTIAN A. SCHMIDT, OF HOBOKEN, NEW JERSEY.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 321,645, dated July 7, 1885.

Application filed August 8, 1884. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN A. SCHMIDT, of Hoboken, in the county of Hudson and State of New Jersey, have invented a new and Improved Adjustable Door-Stop, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved stop for holding doors or swinging frames in a certain position, but permitting them to pass if sufficient pressure is brought to bear on the doors or frames, which stop is adapted to be adjusted so as to require more or less pressure or power to force the doors or frames past it.

The invention consists in the combination, with a spring-bolt, of a slide having wedge-shaped prongs adapted to act on pins or projections on the bolt, thereby withdrawing the bolt more or less and regulating its throw.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is an end view of my improved door-stop, parts being in section. Fig. 2 is a longitudinal elevation of the same, parts being in section. Fig. 3 is a plan view of the tapered or wedge-shaped slide for adjusting the stop.

The bolt A, having its upper or outer end beveled or rounded, is held and guided to slide in the direction of its length, and is pushed outward by a spiral spring, B, arranged to act on the said bolt. The inner or lower end of the bolt is held in a socket, C, formed in a block, C', in which socket a longitudinal groove, D, is formed, into which a pin or stud, E, projecting from the bolt, passes to prevent the said bolt from turning on its longitudinal axis. From the bolt two opposite pins, F, project, or other projections are formed, which, by the spring acting on the bolt, are pressed against the beveled surfaces of the tapered or wedge-shaped prongs G of a sliding plate, H, held to slide on the under or inner side of the plate K, from which the bolt projects. The slide H is provided with a

handle, J, which projects through a slot, L, in the plate K. The slide is held between suitable guides, N, on the under or inner side of the plate K.

In place of the spiral spring any other suitable spring can be used for the same purpose.

The above-described device can be used with any swinging door or frame, and I have shown it used with an exhibiting device, in which it holds the hinged frames R after they have been swung past the observer and prevents them from swinging back. When a door or frame is swung against the bolt A, the bottom edge of the door strikes the top of the bolt and forces it down and passes by, the bolt being forced up or out as soon as the door or frame has passed. If the door is very heavy, the stop must be so adjusted that it projects a greater distance above the bottom edge of the door, thus making it impossible for the door, by its weight, to push down the bolt sufficiently to pass back. If the door is light, the head of the bolt need project but slightly above the bottom edge of the door. If the door is not to be stopped or held at all, the bolt A is lowered to such an extent that the bottom edge of the door can clear it. When the pins F rest against the beveled edges of the prongs at or near the free ends, the bolt is raised or projected as much as possible. By pushing the slide toward the bolt the beveled prongs, acting on the pins F, press the same and the bolt downward. The door can force the pin downward; but the bolt cannot rise beyond a certain distance above the bottom edge of the door. I have shown the stop below the door; but it can as well be arranged above the door or at the side of the same.

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

1. The combination, with a bolt, of a spring acting on the same, and of a wedge-shaped or tapered slide for adjusting the distance the bolt is forced out by the spring, substantially as herein shown and described.

2. The combination, with a bolt, of a spring acting on the same, pins or other projections

on the bolt, and a slide having beveled prongs resting against the pins, substantially as herein shown and described.

3. The combination, with the bolt A, of the
5 block C', forming a socket, C, having a groove, D, the pin E, projecting from the bolt into the groove D, the spring B, surrounding the

bolt, the pins F, and the slide H, provided with beveled prongs, substantially as herein shown and described.

CHRISTIAN A. SCHMIDT.

Witnesses:

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