

(No Model.)

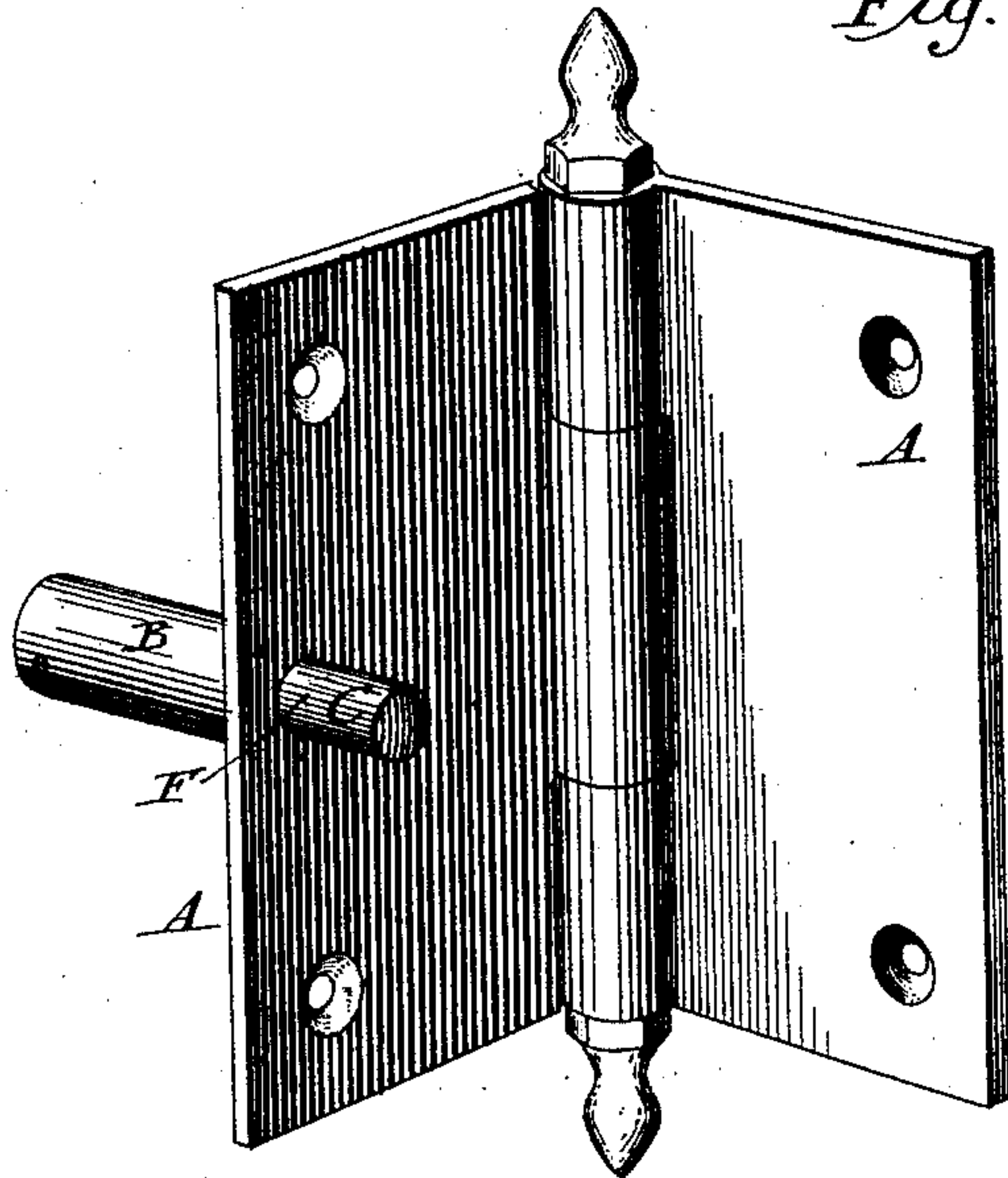
M. T. BYRNE.

DOOR CHECK.

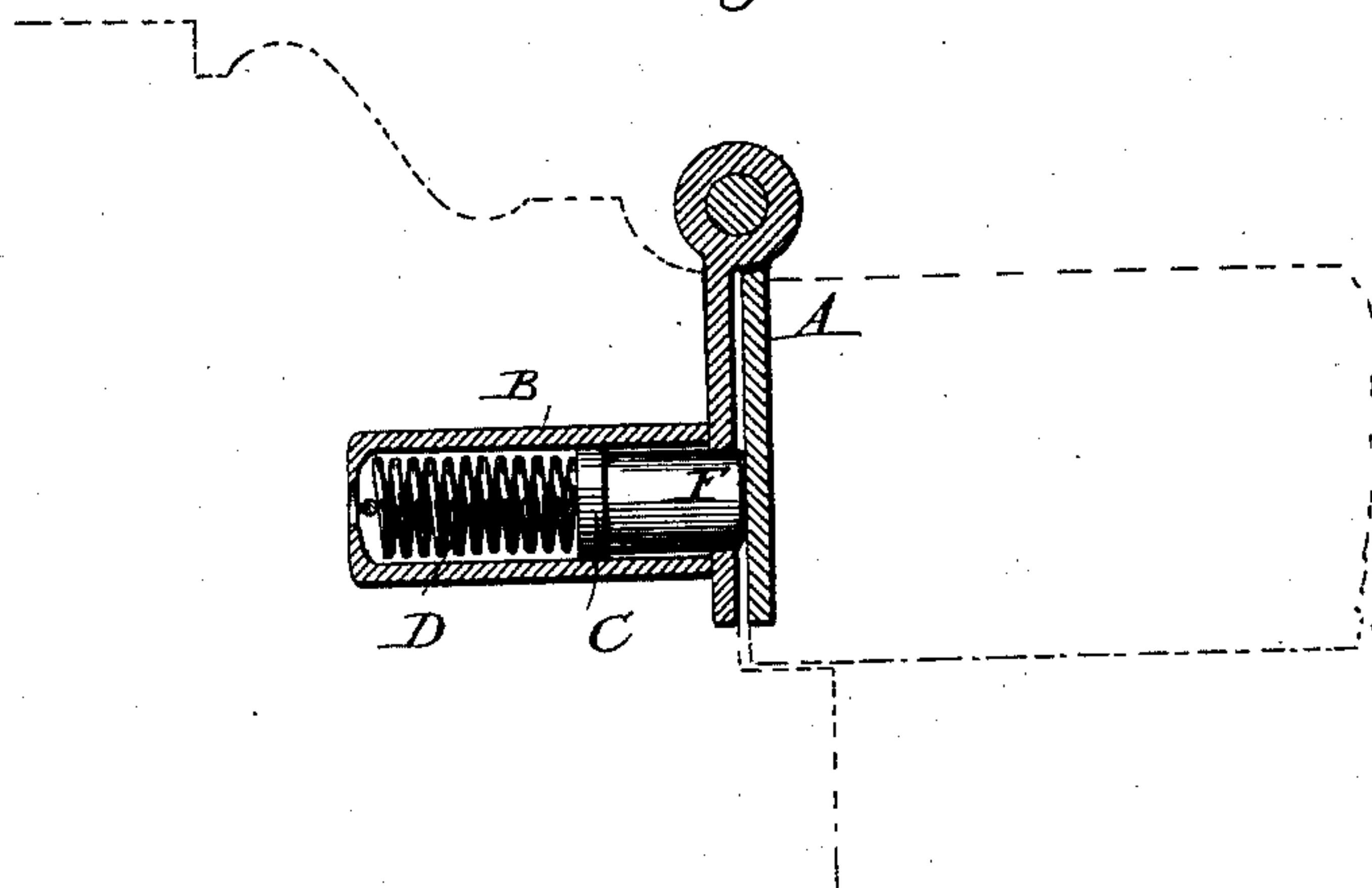
No. 367,742.

Patented Aug. 2, 1887.

*Fig. 1.*



*Fig. 2.*



*Attest:*

*Sidney P. Hollingsworth*  
*A. R. Kennedy,*

*Inventor:*

*M. T. Byrne.*  
*By his Atty*  
*Phil. T. Dodge.*

# UNITED STATES PATENT OFFICE.

MATTHEW THOMAS BYRNE, OF COLORADO, TEXAS.

## DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 367,742, dated August 2, 1887.

Application filed March 16, 1887. Serial No. 231,173. (No model.)

*To all whom it may concern:*

Be it known that I, MATTHEW THOMAS BYRNE, of Colorado, in the county of Mitchell and State of Texas, have invented certain Improvements in Door-Checks, of which the following is a specification.

The object of this invention is to provide a means for preventing the jarring and noise incident to the sudden stoppage of a door or window-blind in closing, especially when the said door or blind is subjected to the impulse of a spring or other actuating means; and to this end it consists of a hinge having one leaf provided with a case or box extending laterally from the back thereof, the said case or box inclosing a spring-actuated bolt which normally projects beyond the point of the leaf, and is arranged to engage with the other leaf of the hinge when the door is closed.

In the accompanying drawings, Figure 1 is a perspective view of the device in a partially open position. Fig. 2 is a partially sectional view of the same in the closed position.

The hinge A may be of any suitable construction, and serves as one of the supporting-hinges of the door or blind. One leaf of the hinge is provided with a laterally-projecting and preferably cylindrical case or box, B, formed on or secured to the back of the said hinge-leaf, and when the hinge is in use the case is seated in the door-jamb or window-casing, or, if preferred, in the door or window-blind.

The case B contains a sliding bolt, C, between the end of which and the end of the case is interposed a spring, D, and the said bolt is reduced in diameter at one end, F, which reduced portion projects through and normally beyond the face of the hinge-leaf. The projection of the portion F of the bolt C is limited by the larger portion of the same abutting against the hinge-leaf.

The hinge, with the check formed by the spring-actuated bolt, may be used in place of both the upper and lower hinges of a door, and when so applied and the door moved to the closed position the projecting end of each bolt will engage with the opposing leaf of the hinge before the door is entirely closed, and be forced into the casing. The further movement of the door will be resisted and retarded by the springs to such an extent that the door will slowly approach the closed position until the latch catches without the jarring and noise incident to a sudden stoppage of the door.

I may use but one check to a door, or I may use two or more, according to the weight of the door, the strength of the check-spring, and the strength of the closing-spring of the door, if one be used.

It is evident that the bolt may be of one size throughout and a transverse pin be used to limit its projection from the face of the hinge-leaf, and that instead of a case a bracket or other retaining means may be used as a holder for the bolt and spring.

Having thus described my invention, what I claim is--

The combination, with a hinge, of a case secured to one leaf thereof, and a longitudinally-movable spring-actuated bolt contained in said case and having one end projecting through and normally beyond the said leaf, substantially as and for the purpose specified.

In testimony whereof I hereunto set my hand, this 15th day of February, 1887, in the presence of two attesting witnesses.

MATTHEW THOMAS BYRNE.

Witnesses:

J. S. JOHNSTON,  
J. H. HALEY.