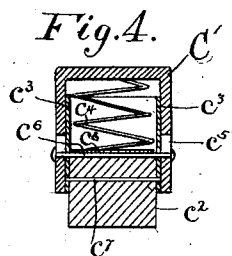
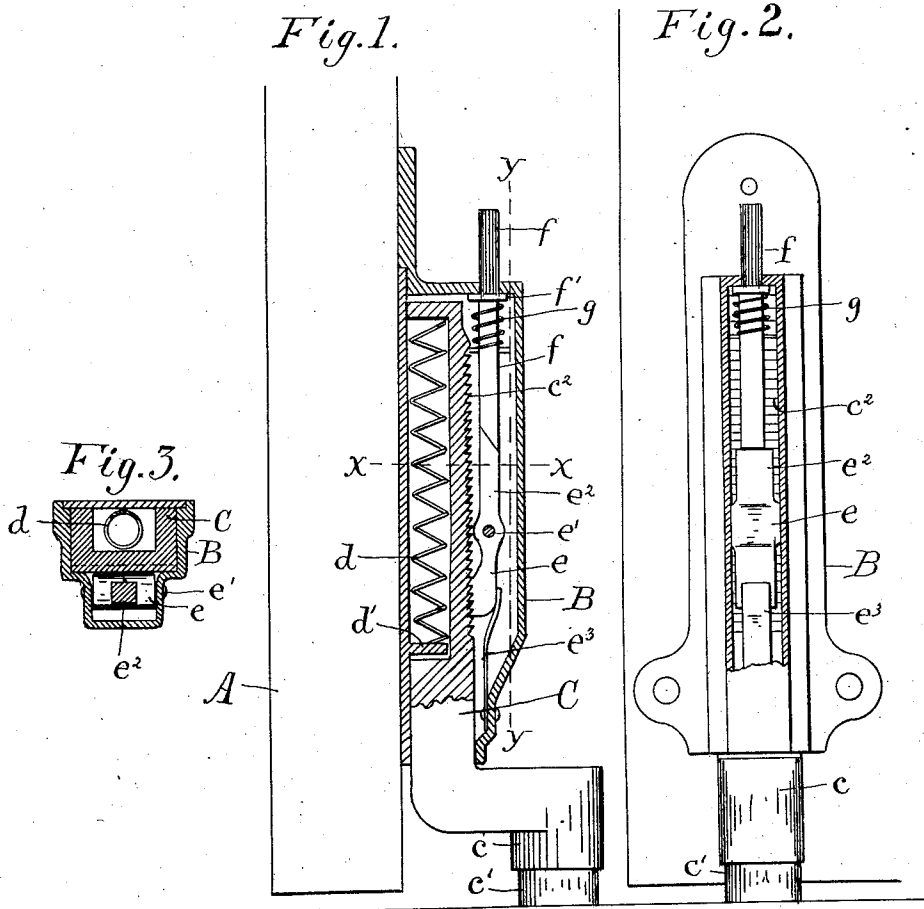


1,048,060.

Patented Dec. 24, 1912.



Witnesses:
Benj. E. Ford.
Lora B. Creighton.

Inventor:
Benjamin F. Foss.
by S. W. Bates
Att'y.

UNITED STATES PATENT OFFICE.

BENJAMIN F. FOSS, OF PORTLAND, MAINE.

DOOR-HOLDER.

1,048,060.

Specification of Letters Patent.

Patented Dec. 24, 1912.

Application filed June 29, 1912. Serial No. 706,616.

To all whom it may concern:

Be it known that I, BENJAMIN F. FOSS, a citizen of the United States, and a resident of Portland, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Door-Holders, of which the following is a specification.

My invention relates to a door stop or fastener such as are used to hold a door open in any desired position, and the object of my invention is to construct a door stop which will be simple in construction and which may be both set and released by a pressure of the foot.

With these objects in view, my invention consists of the combination and arrangement of parts hereinafter described and claimed.

My invention may best be understood by reference to the accompanying drawing, in which—

Figure 1 is a part vertical section of my device in position, on a door, Fig. 2 is a part vertical section on the line *y y* of Fig. 1, Fig. 3 is a horizontal section on the line *x x* of Fig. 1, and Fig. 4 is a vertical section through the foot piece showing a modified construction.

Referring to the drawing, A represents the door and B is a suitable casing inclosing the parts and adapted to be secured to the lower portion of the door. Slidably mounted in the casing B is a vertically disposed bolt C having an offset foot piece *c* on its lower end with a yielding plug *c'*. The bolt has a ratchet *c²* on one of its faces and it is provided with a spring to lift or release it when it is not in operation.

As here shown, the bolt is hollowed out to receive a spring *d* which acts against a stop *d'* in the casing and the top of the recess in the bolt. The spring *d* tends at all times to lift the bolt *c*. The bolt is held down by a spring pressed pawl which engages the ratchet and is released by a tripping device so located as to be actuated by a downward pressure of the foot.

As here shown, a pawl *e* is pivoted at *e'* adjacent to the bolt C and it has an upward extending arm *e²* having on its upper end an inclined surface. A spring *e³* presses the pawl into engagement with the ratchet. The pawl is released by a tripping bolt *f* which extends through the top of the casing, its upper end forming a treadle on which the

foot may be placed when it is desired to release the bolt. The bolt has a stop or collar *f'* and a spiral spring *g* tends to force it upward at all times.

On the lower end of the bolt *f* is an inclined surface which engages with the inclined surface of the upper arm of the pawl and when the bolt *f* is pressed downward the action of these two inclined surfaces is to throw over the pawl arm *e²* and disengage the pawl.

When the device is to be used, it is secured to the lower portion of the door. The door may then be secured in any desired position by placing the foot on the offset foot piece *c* and pressing it down onto the floor. The pawl *e* will automatically engage the ratchet and hold the bolt down. To release the ratchet it is only necessary to place the foot on the upper end of the bolt *f* which releases the pawl and allows the bolt to fly up and release the door.

The releasing device may be otherwise constructed than as here shown but it is important that it shall be so connected that it may be acted upon by a motion of the foot, preferably downward.

Instead of the foot piece shown in Figs. 1 and 2, I may use one as illustrated in Fig. 4 in which C' represents the socket on the lower end of the bolt, *c³* a sleeve fitting therein and capable of longitudinal movement in the socket. Vertical slots *c⁵* are cut in opposite sides of the socket and through this slot a rivet *c⁶* passes through the sleeve to secure it in place while allowing a limited amount of vertical motion.

A rubber plug *c²* is secured in the lower end of the sleeve by a rivet *c⁷* and the sleeve and plug are forced normally downward by a spiral spring *c⁴* which bears on a disk *c⁸* on the upper end of the plug.

The spring is of considerable length since it comes inside of the sleeve *c³* and there is a corresponding amount of resiliency. A foot piece thus constructed has a considerable amount of compression and is not dependent on the resiliency of the rubber tip.

I claim:—

1. A door holder comprising a casing, a bolt having a ratchet and an offset foot piece, said bolt being vertically slidable in said casing, a spring for lifting said bolt, a spring pressed pawl for engaging said ratchet and a longitudinally slidable tripping bolt for engaging and releasing said

pawl extending through the top of said casing.

2. A door holder comprising a casing, a bolt having a ratchet and an offset foot
5 piece, said bolt being vertically slidable in said casing, a spring for lifting said bolt, a spring pressed pawl for engaging said ratchet having an upward extending arm provided with an inclined surface, a trip-
10 ping bolt extending through the top of the casing and having an inclined surface engaging the inclined surface of said pawl and a spring for lifting said tripping bolt.
15 3. A door holder comprising a casing, a bolt having a ratchet and an offset foot piece, said bolt being vertically slidable in

said casing, a spring for lifting said bolt, a spring pressed pivoted pawl for engaging said ratchet, said pawl having an inclined surface above the pivoting point, a vertically
20 disposed tripping bolt extending through the top of the casing and having on its lower end an inclined surface engaging the inclined surface of said pawl and a spring for
25 lifting said tripping bolt.

In testimony whereof I have affixed my signature, in presence of two witnesses.

BENJAMIN F. FOSS.

Witnesses:

S. W. BATES,

C. B. CREIGHTON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."