

J. W. BUOY.
DOOR STOP.
APPLICATION FILED DEC. 17, 1910.

1,018,871.

Patented Feb. 27, 1912.

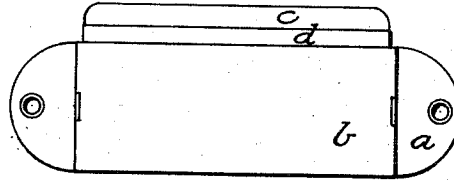


Fig. 1.

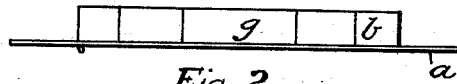


Fig. 2.

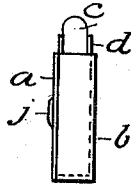


Fig. 3.

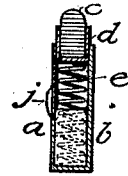


Fig. 4.

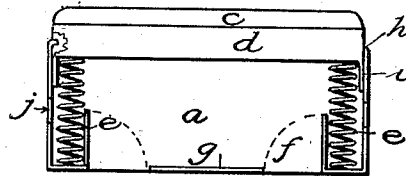


Fig. 5.

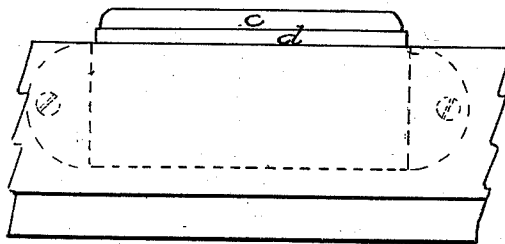


Fig. 7.

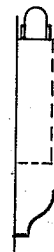


Fig. 6.

Witnesses
M. Vernon Parson.
M. D. Hensill

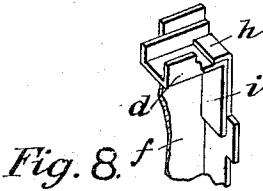


Fig. 8.

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UNITED STATES PATENT OFFICE.

JOHN WILLIAM BUOY, OF EUGENE, OREGON, ASSIGNOR OF ONE-THIRD TO M. VERNON PARSONS.

DOOR-STOP.

1,018,871.

Specification of Letters Patent.

Patented Feb. 27, 1912.

Application filed December 17, 1910. Serial No. 597,906.

To all whom it may concern:

Be it known that I, JOHN WILLIAM BUOY, a citizen of the United States, residing at Eugene, in the county of Lane and State of Oregon, have invented certain new and useful Improvements in Improved Door-Stops, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain new and useful improvements in door stops, and the object of the invention is to generally improve, simplify, and lessen the cost of manufacture of devices of this type.

In the drawings, Figure 1 is a front elevation of the invention, Fig. 2 is a bottom plan view of the casing, Fig. 3 is an end elevation, Fig. 4 is a vertical sectional view, Fig. 5 is a front elevation showing the cover plate removed, Fig. 6 is an end elevation of a door jamb equipped with the present invention, and Fig. 7 is a fragmentary side elevation of Fig. 7. Fig. 8 is a fragmentary perspective view of one end of the device, the spring being omitted.

The casing is designated *b* in the drawings and has each end thereof formed at its top with an inturned portion forming lips *h*. The bottom of the casing is formed with slits which divide the same into three parts, the central one *g*, of which occupies the position shown in Fig. 5 of the drawings, while the end parts *f*, are bent upwardly at right angles to form pockets in conjunction with the adjacent casing ends, for the reception of the coil springs *e*. The cover plate, *a*, is formed with slots to receive lugs *j* formed on the sides of the ends of casing *b* and has flanges at its bottom which are received in the spaces between the bottoms of the spring pockets and the central part *g* of the casing *b*.

The plunger consists of a frame *d*, of U-shape in cross section, in which frame the rubber cushion *c* is held. The ends of the base of the U-shaped frame *d*, are bent downwardly to form guides *i*, which slidably engage the inner faces of the casing ends, as depicted in Fig. 5. The lips *h*, engage the base of the frame *d*, at the ends thereof, and

act as stops to restrict the outward movement of the plunger against the action of the springs *e*.

As illustrated in Figs. 6 and 7, the device is inserted in the edge of the door jamb in such position as will cause the door to engage the rubber cushion *c*, thereby obviously absorbing the shock, incident to contact of the door and jamb, permitting the door to close with less noise than otherwise.

What is claimed is:

1. In a door stop, a casing having the outer extremities of its ends bent inwardly to form stops, the bottom of the casing being slitted to form two end parts which are bent inwardly to form pockets in conjunction with the adjacent ends of the casing, a coil spring in each of said pockets, a plunger having a frame of U-shape in cross section, a rubber cushion in said frame, the ends of the base of said plunger frame being bent outwardly to form guides which slidably engage the inner faces of the casing ends, said stops engaging the ends of the base of said frame to restrict the outward movement thereof, and a cover plate for the casing.

2. In a door stop, a casing having the outer extremities of its ends bent inwardly to form stops, a plunger having a frame of U-shape in cross section, a rubber cushion in said frame, the ends of the base of the frame being bent outwardly and forming guides which slidably engage the ends of the casing, and spring means on the casing interior engaging said plunger frame.

3. In a door stop, a casing having portions of its bottom slitted and the slitted parts bent upwardly to form pockets in conjunction with the adjacent ends of the casing, a coil spring in each pocket, and a plunger slidably engaged in the casing and being engaged by said springs.

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

JOHN WILLIAM BUOY.

Witnesses:

M. VERNON PARSONS,
EARL PARSONS.