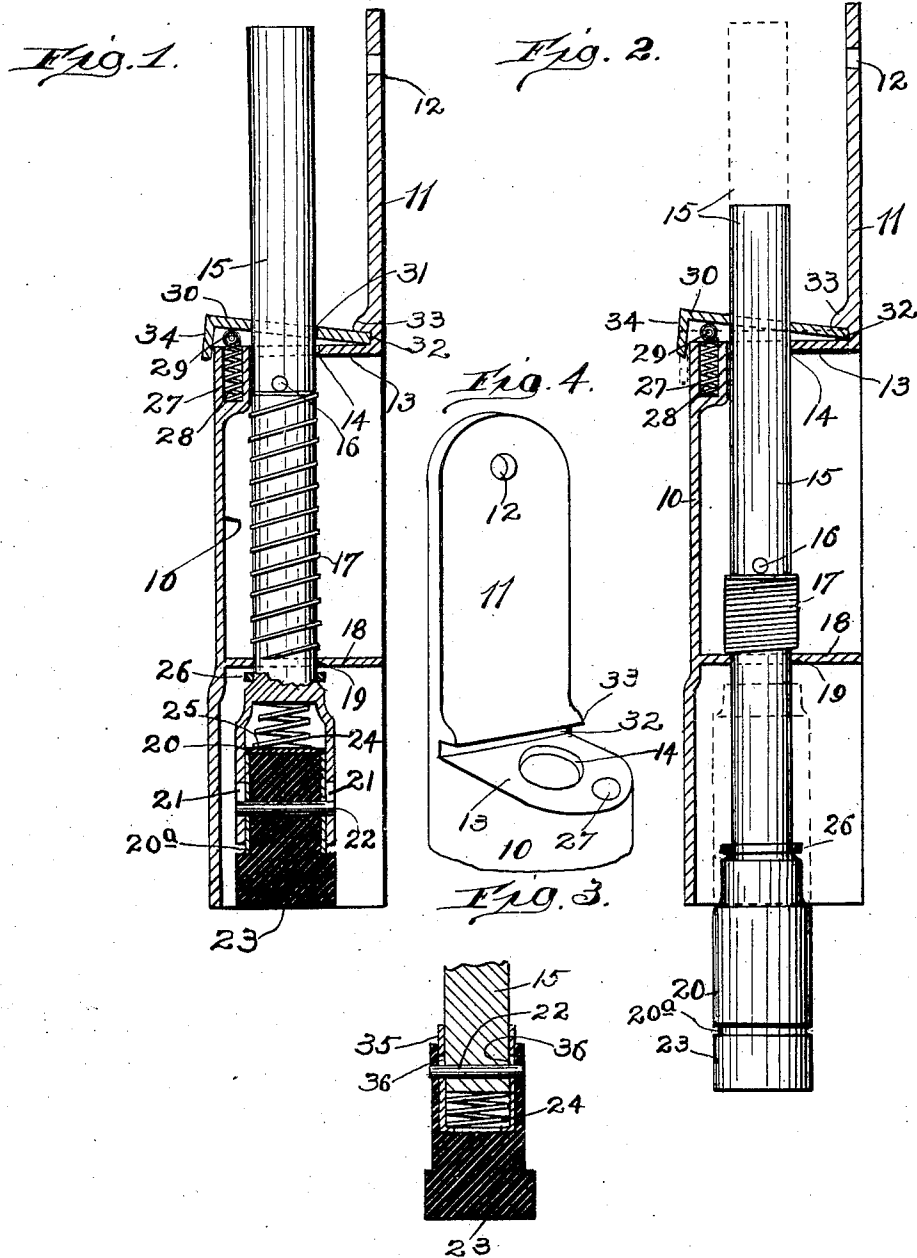


No. 852,655.

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A. DANIELSON.
DOOR HOLDER.

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Witnesses:

Chas. E. Gorton.
M. A. Nyman.

Inventor:

Albin Danielson.

Chas. C. Fildes
Att'y

UNITED STATES PATENT OFFICE.

ALBIN DANIELSON, OF CHICAGO, ILLINOIS.

DOOR-HOLDER.

No. 852,655.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBIN DANIELSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Door-Holders, of which the following is a specification.

This invention relates to improvements in a device to be applied or attached to the lower portion of doors, for the purpose of holding them open at any desired angle with respect to the doorway, and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The object of the invention is to provide a door holder which consists of very few parts, and which shall be simple and inexpensive in construction, strong, durable and effective in operation, and so made that it may be easily applied to a door or removed therefrom, as well as that the operation of fastening or releasing the door may be attained or effected in the simplest manner.

Other objects and advantages of the invention will be disclosed in the subjoined description and explanation.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it, referring to the accompanying drawing, in which—

Figure 1 is a vertical central sectional view through the casing of the holder, showing the spring-actuated bolt in elevation, but the resilient engaging device and its socket in section, and also illustrating the bolt in its raised position. Fig. 2 is a central vertical sectional view through the casing of the holder, showing the bolt in elevation and by continuous lines in its lowermost position, but by dotted lines in its raised position. Fig. 3 is a longitudinal sectional view through a portion of the spring-actuated bolt, showing a modification in the manner of securing the resilient engaging device for the floor thereto;—and—Fig. 4 is a fragmental perspective view of the casing of the holder.

Like numerals of reference, refer to corresponding parts throughout the different views of the drawing.

The casing of the holder, which may be of any suitable size, form and material, but which is preferably partly tubular in shape, as shown, is designated by the reference nu-

meral 10, and has on the rear part of its upper portion a flat extension 11, which is provided with an opening 12 to receive a screw to be used for securing it to the door. The partly tubular casing 10 is provided at its upper end with a horizontally disposed portion or floor 13, which has an opening 14 for the reception and operation of the bolt 15, which carries at a suitable distance below the portion 13 a pin or projection 16, against which the upper portion of a spring 17, which is wound around the bolt 15, will rest, the lower portion of said spring resting against a horizontal partition 18, which is also provided with an opening 19 for the reception and operation of the said bolt. The lower portion of the bolt 15 is formed or provided with a hollow enlargement 20, which has located diametrically opposite each other in its walls elongated openings 21, in which are located the ends of a rod 22 which extends through the shank of a block 23, of rubber or other resilient material, which block extends some distance below the lower portion of the enlargement 20, as is clearly shown in Figs. 1 and 2 of the drawings. By reference to Fig. 1 it will be seen that a spiral spring 24 is located in the hollow enlargement 20, between the top of said enlargement and the upper end of the block or cushion 23, so as to impart additional resiliency thereto. A disk 25 may be located on top of the shank of the block or cushion, so as to form a support for the spring 24, as shown in Fig. 1, but this is not essential to the operation or construction of the device. A washer 26, of leather or other suitable material, may be placed around the bolt 15 at the upper portion of its enlargement 20, to act as a buffer against the partition 18 and to prevent noise.

The upper front portion of the casing 10 is provided with a vertical socket 27, in which is located a spiral spring 28, which carries on its upper end a projection 29, which is usually in the form of a ball to rest against the lower surface of a catch or holding-plate 30, which is formed with an opening 31 slightly larger than the bolt 15, which passes through said opening. The rear portion of the catch or holding-plate 30 has a straight edge and is loosely and removably located in a recess 32, formed by a transverse rib 33 on the lower portion of the extension 11 of the casing and the partition 13, as will be readily understood by reference to Fig. 4 of the drawing. The curved edge of the catch or plate 30 may be

provided with a downturned flange 34, to overlap the upper end of the casing in order to prevent access to the ball or projection 29 when the same is used, or if the same be
5 omitted, to the spring 28 by meddlesome persons.

In Fig. 3 of the drawing I have shown a modification in the manner of connecting the block or cushion 23 to the bolt 15, which
10 consists in dispensing with the enlargement 20 on its lower end shown in Fig. 1, and by placing thereon a sleeve 35, which has in its walls diametrically opposite each other elongated openings 36, to receive the ends of
15 a rod 22, which extends transversely through the bolt 15 and engages with its ends the upper portion of the block or cushion 23, which portion is made hollow to receive the lower end of the bolt 15, and has located therein a
20 spiral spring 24 which rests at one of its ends against the lower end of the bolt 15 and at its other end against the bottom of the cavity in the block or cushion.

The operation of the device is simple and as
25 follows: The casing 10 is secured to the lower portion of the door by means of screws or otherwise, so that it will occupy a vertical position thereon. When it is desired that the door may be opened and closed freely,
30 the bolt 15 which carries the cushion 23 is held in its raised position through the instrumentality of the spring 17 and the catch or plate 30, as shown in Fig. 1 of the drawing, but when it is desired to check or hold the
35 door open at a certain point, the plate 30 is pressed downwardly and also the bolt 15 until the cushion or block 23 contacts with

the floor, when by removing pressure from the plate 30, as well as said bolt, it is apparent that the spring 28 will cause the plate 30
40 to be slightly raised or inclined, as shown, thus causing it to firmly hold the bolt in the said projected position. To release the holder so that the door may swing freely, it is only
45 necessary to press the catch or plate 30 downwardly when the spring 17 will raise the bolt and its cushion to their normal positions, or out of contact with the floor.

By reference to Fig. 1 it will be seen and understood that the shank of the block 23 is
50 surrounded by a tube 20^a, and the said block and tube will have a slight movement independent of the enlargement 20 on the spring-actuated rod.

Having thus fully described my invention
55 what I claim as new and desire to secure by Letters-Patent, is—

In a door holder, the combination with a casing adapted to be secured to a door and having horizontally disposed apertured parts
60 one above the other and a horizontally disposed rib located at a slight distance above the upper of said parts to form a horizontal recess, a spring actuated bolt loosely located in said apertures, a cushion mounted on the
65 lower portion of said bolt, and a spring actuated holding plate surrounding the upper portion of the bolt and having its edge loosely located in the recess of the casing, substantially as described.

ALBIN DANIELSON.

Witnesses:

CHAS. C. TILLMAN,
M. A. NYMAN.