

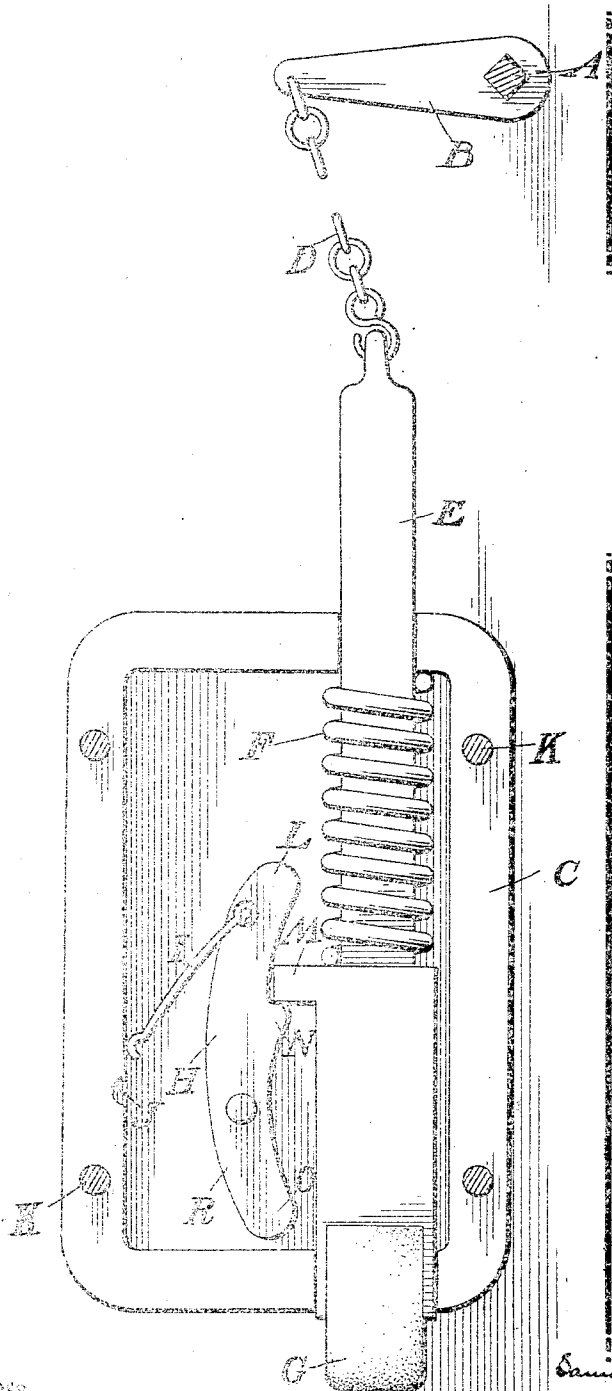
S. M. GREENIDGE & A. Y. WRIGHT.

DOOR STOP.

APPLICATION FILED JULY 18, 1912.

1,059,865.

Patented Apr. 22, 1913.



Inventors

Witnesses
A. H. Hammond
R. C. Braddock

Samuel Marshall Greenidge
and
Alvin Young Wright
Vernon C. Rode
their Attorney

304

UNITED STATES PATENT OFFICE.

SAMUEL MARSHALL GREENIDGE AND ALCINOUS YOUNG WRIGHT, OF DOUGLAS,
ARIZONA.

DOOR-STOP.

1,059,865.

Specification of Letters Patent.

Patented Apr. 22, 1913.

Application filed July 18, 1912. Serial No. 710,237.

To all whom it may concern:

Be it known that we, SAMUEL MARSHALL GREENIDGE and ALCINOUS YOUNG WRIGHT, citizens of the United States, residing at Douglas, in the county of Cochise and State of Arizona, have invented certain new and useful Improvements in Door-Stops, of which the following is a specification.

Our invention relates to an improvement in door-stops, and the object is provide a simple device operable by turning the door-knob to hold the door open at any angle.

With this object in view, our invention consists in a lever attached to the knob-handle or shank in connection with means controlled by said lever for checking and holding the door at the desired position the instant the knob is released.

Our invention further consists in means controlled by the door-knob for holding the door at any angle desired in connection with means for automatically locking said first-mentioned means when not in use and for automatically releasing it when it is to be again thrown into operative position.

Our invention still further consists in certain novel features of construction and combinations of parts which will be hereinafter fully described and pointed out in the claims.

The accompanying drawing is a view in side elevation with the casing removed to show the interior construction and the various operating parts of our improved stop.

A represents the door-knob handle or shank; and B is a lever mounted thereon.

D is a flexible connection such as a chain extending from the outer or free end of the lever B to the plunger E, which latter is slidably mounted in a suitable casing C actuated by spring F. This plunger E carries a rubber-plug G at the bottom in position to engage the floor, the casing C being held on the door near the lower end by screws or other means K, K.

Within the casing, a catch H is pivoted at R. About midway between the ends, this catch has a shoulder N in position to engage and take under a lug M projecting laterally from the plunger when the catch H is held in the position shown in the drawings by the spring I, the purpose of this shoulder N being to hold the rubber plug G of the

plunger out of contact with the floor when it is the desire to make the door-stop inoperative. The upper end L of the catch projects inwardly in the path of the lug M so that by turning the door-knob to raise the lever B, lug M is caused to strike the end L of the catch, forcing the catch aside, and the free end of the spring I drops into the recess or socket J which it fits, where it remains withholding the shoulder N from the path of the lug M, permitting the rubber plug to engage the floor when the knob is released, due to the action of the spring F. After passing the shoulder N, the lug M finds the lower end O of the catch H in its path, and striking it the catch is swung to the position shown in the drawing with the shoulder N ready to reengage the lug M when the latter shall have been raised to a point above it.

It is evident that other catching means might be employed as well as modifications made in the mechanism of the plunger and accessories, and hence we do not wish to limit ourselves to the exact construction herein set forth, but:

Having fully described our invention, 80 what we claim as new and desire to secure by Letters Patent, is:—

1. The combination with a movable plunger having a lug thereon, and means for actuating said plunger, of a pivoted catch having three portions, one of which is always in the path of the lug on the plunger, and at least two of which may be in the path of the plunger, whereby the catch automatically holds or releases the plunger according to the manipulation of the means which actuates the plunger.

2. The combination with a movable plunger, means connected with a door-handle, and a connection between said means and the plunger for controlling the latter, of a movable catch having an intermediate shoulder and its ends in position in the path of a portion of the plunger, and a spring connected with the catch for swinging the catch or holding it in one of its positions.

3. The combination with a movable plunger having a lug thereon, and means for moving the plunger in opposite directions, of a pivoted catch carrying a shoulder and having the shoulder and both ends in posi-

tion to be engaged by the lug on the plunger,
and a spring connected with the catch for
swinging it into its normal position, said
spring constructed and adapted to hold the
5 catch out of its normal position until the
lower end of the catch is struck by the lug
when the catch is automatically caused to re-
sume is normal position.

In testimony whereof we affix our signa-
tures, in the presence of two witnesses.

SAMUEL MARSHALL GREENIDGE.
ALCINOUS YOUNG WRIGHT.

Witnesses:

D. O. RICHARDSON,
FRANK W. DOAN.

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