

(No Model.)

G. W. TAYLOR & J. E. McELROY.

DOOR STOP.

No. 511,662.

Patented Dec. 26, 1893.

Fig. 1.

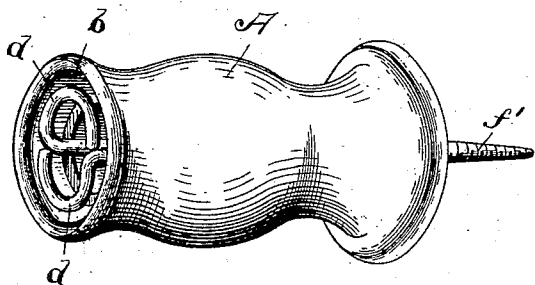


Fig. 3.

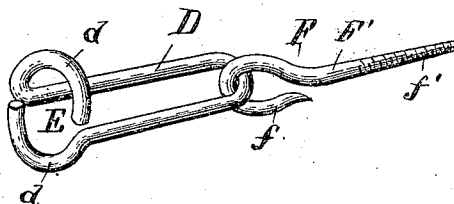


Fig. 2.

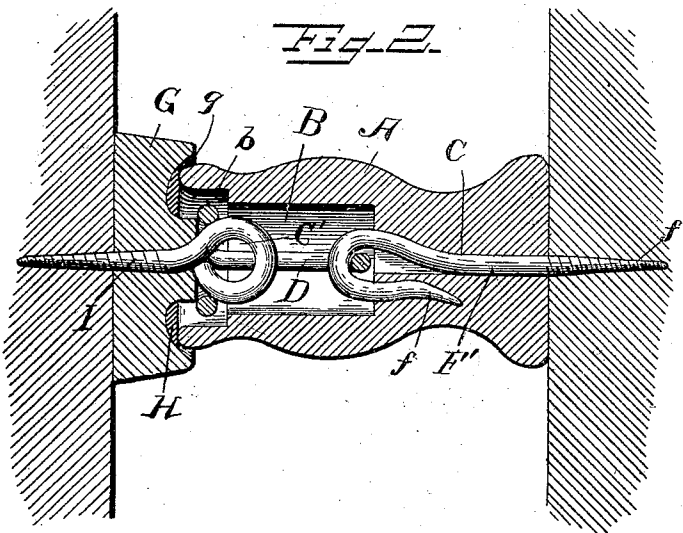
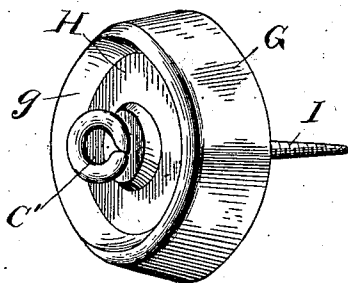


Fig. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## DOOR-STOP.

SPECIFICATION forming part of Letters Patent No. 511,662, dated December 26, 1893.

Application filed August 2, 1893. Serial No. 482,188. (No model.)

*To all whom it may concern:*

Be it known that we, GEORGE W. TAYLOR and JAMES E. McELROY, citizens of the United States, residing at Muscatine, in the county of Muscatine and State of Iowa, have invented certain new and useful Improvements in Door-Stops; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to that class of door-stops embodying a knob or a spring-catch disposed within said knob, and a retaining device adapted to be received by the catch.

The object of the invention is to provide simple and improved means for securing both the spring catch within the knob, and the latter in place.

A further object is to provide a door-stop of the character above described which will possess advantages in point of simplicity and inexpensiveness in construction, durability in use and general efficiency.

In the drawings:—Figure 1 is a perspective view of a door-stop embodying our invention, the retaining device being removed. Fig. 2 is a longitudinal sectional view of the door-stop. Fig. 3 is a detail perspective view of the spring-catch and its securing hook, detached. Fig. 4 is a similar view of the retaining device.

Corresponding parts in all the figures are denoted by the same letters of reference.

Referring to the drawings, A designates the knob which is preferably formed of wood and in the main of any suitable construction. The knob A is provided with a central longitudinal bore or chamber, B, extending from one end about half way through the knob said bore terminating at its outer end in an enlargement, *b*. The knob is also provided with an eye, C, extending centrally and longitudinally through the solid portion or body of the knob.

D designates the spring-catch which is preferably constructed from a piece of spring wire, and bent up at its center into an approximately U-shaped form. The ends of the catch are bent reversely at right angles to the body, the arms, *d d*, thus provided being seg-

mentally curved in a reverse direction and form conjunctively a circular eye, E. To secure the spring-catch within the bore or chamber B of the knob, we provide a hook, F, having its contracted member, *f*, or hook proper, bent round to near the plane of its elongated member, F', the end of said short member being pointed and turned outwardly from the member F'. The latter is provided with a screw end, *f'*, by means of which the knob is secured in place. To assemble the parts, the spring catch is placed upon the hook with the central bend of the catch engaging the hook proper, the hook being inserted in the bore or chamber B of the knob, and its member F' passed through the eye C. The hook is then forcibly driven inwardly, embedding the member *f* in the body of the knob, thus securing the hook against lateral as well as longitudinal displacement. With the hook in secured position, the screw end of the member F' projects beyond the inner or rear end of the knob, and serves as a screw for securing the knob in place. To effect this the knob is turned with an inward pressure, the securing of the hook within the knob in the manner described, rendering such method of securing the latter practical. When the spring-catch is in position within the bore or chamber B the circular eye E of the catch coincides with the enlargement *b*, the diameter of the latter being sufficient to prevent lateral play of the arms forming said eye.

In connection with the door-stop above described, we employ a retaining device which comprises a disk, G, provided in its outer face with an annular groove, *g*, adapted to receive a suitable cushion, H. Passing centrally through this disk is a screw-eye, I, by means of which the disk is secured in place. The head of the screw is designed to be received and retained by the eye C' of the spring-catch. In lieu, however, of the construction just described, any other suitable form of retaining device may be employed without departing from the spirit and scope of our invention.

The operation and advantages of our invention will be readily understood by those skilled in the art to which it appertains. The stop and retaining device are secured at reg-

istering points upon the door and wall, and when the door is thrown open the spring-catch will engage the head of the screw-eye I, and retain the door in open position. To close the door, the latter is given a slight pull, when the head of the screw eye will be freed from the spring-catch.

We claim as our invention—

As an improvement in door-stops, the combination, with a knob provided with a central longitudinal bore or chamber terminating in advance of the rear end thereof, and a spring-catch disposed within said bore or chamber and adapted to engage a retaining device, of

a hook consisting of an elongated member provided at its end with a screw and a contracted member, said hook securing the spring-catch with its contracted member embedded in the body of the knob and its elongated member projecting through the rear end of the latter; substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

GEO. W. TAYLOR.  
JAMES E. McELROY.

Witnesses:  
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G. M. SCOTT.