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No. 813,927. PATENTED FEB. 27, 1906.

D. J. TAYLOR.

DOOR STOP AND RETAINER.

APPLICATION FILED AUG. 17, 1905.

Fig. 1.

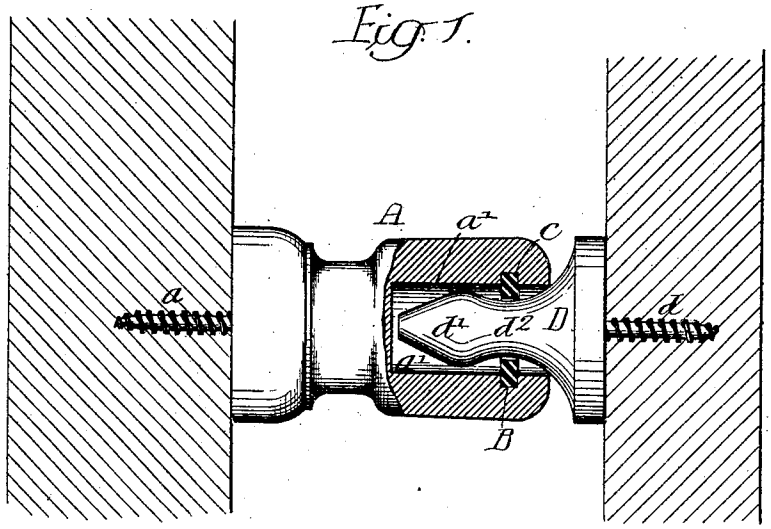


Fig. 2.

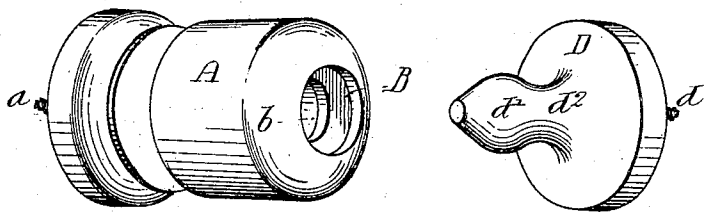
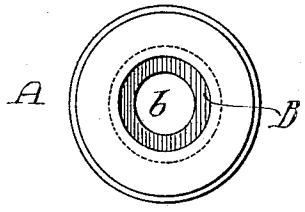


Fig. 3.



Witnesses:
Walter F. Bullinger.
Titus N. Lono

Inventor:
Daniel J. Taylor.
by his Attorneys,
Howson & Howson

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UNITED STATES PATENT OFFICE.

DANIEL J. TAYLOR, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO SAMUEL J. TAYLOR, OF PHILADELPHIA, PENNSYLVANIA.

DOOR STOP AND RETAINER.

No. 813,927. Specification of Letters Patent. Patented Feb. 27, 1906.

Application filed August 17, 1905. Serial No. 274,623.

To all whom it may concern:

Be it known that I, DANIEL J. TAYLOR, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Door Stops and Retainers, of which the following is a specification.

The object of my invention is to provide a simple and effective stop and retainer for doors. This object I attain in the following manner, reference being had to the accompanying drawings, in which—

Figure 1 is a side view, partly in section, of my improved door stop and retainer, showing a door and wall in section. Fig. 2 is a perspective view showing the parts detached, and Fig. 3 is an end view of one of the parts.

A is a door-stop in one end of which is mounted a screw *a*, so that it can be secured either to the washboard of a room or to a door. The opposite end of this stop has a cavity *a'*, and formed in the walls of the cavity is an annular groove *c*, in which is placed a rubber disk B, having a perforation *b*.

D is a knob having a screw *d* at one end, which can be screwed into a door or washboard of a room in a line with the door-stop A. This knob has a head *d'* and a neck d^2, and the head is slightly pointed, as shown. The head of the knob is greater in diameter than the perforation *b* of the disk B, so that it will take a little pressure to force the head of the knob into the cavity *a'* and past the rubber disk. The rubber disk will yield under pressure to allow the head to pass. After the head passes the disk the rubber will contract and retain the knob and the door to the stop, owing to the fact that the head of the knob is larger than the opening in the disk. The disk can be of any thickness desired, depending upon the size of the door and the amount of stiffness desired, and any other suitable elastic material may be used in place of rubber without departing from my invention.

It will be seen that the retainer can be cheaply manufactured, as there are only three parts—namely, the stop with the groove in it, into which the disk is forced, a headed knob, and the elastic disk.

I claim as my invention—

The combination in a door-retainer, of a stop made in a single piece and having a cavity in one end and an annular groove formed in the walls of the cavity, a perforated elastic disk forced into the annular groove and partially closing the cavity, with a headed knob, the head of the knob being greater in diameter than the opening in the disk, but less in diameter than the cavity, so that the disk is free to expand to allow the head of the knob to pass, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DANIEL J. TAYLOR.

Witnesses:
E. R. LOUGHERY,
JOS. H. KLEIN.