

Don Carlos Smart's Door Stop.

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PATENTED AUG 15 1871

Fig 1

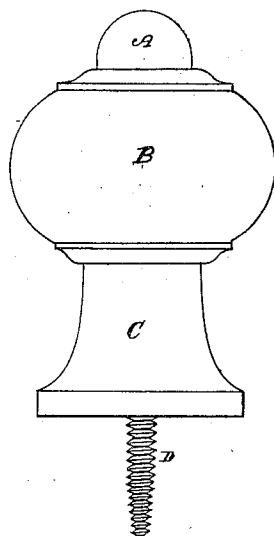


Fig. 2.

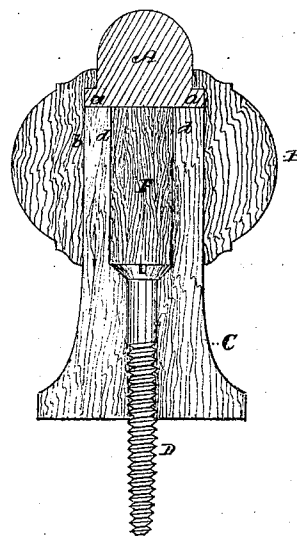
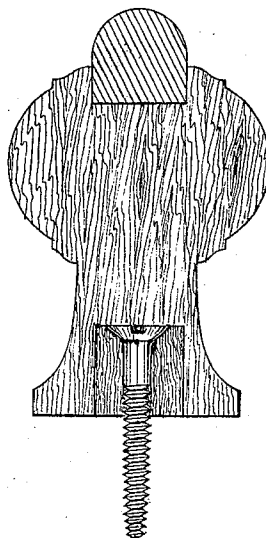


Fig. 3.



Witnesses.

Saml Morse,
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By his attorney

J. P. Hale

UNITED STATES PATENT OFFICE.

DON CARLOS SMART, OF CAMBRIDGEPORT, MASSACHUSETTS.

IMPROVEMENT IN DOOR-CHECKS.

Specification forming part of Letters Patent No. 118,063, dated August 15, 1871.

To all whom it may concern:

Be it known that I, DON CARLOS SMART, of Cambridgeport, in the county of Middlesex and State of Massachusetts, have invented an Improved Door-Stop; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 denotes a side elevation, and Fig. 2 a longitudinal and central section of my said invention; Fig. 3, a longitudinal and central section of a door-check, as heretofore made.

My invention relates to that class of door-checks which has an India-rubber pad or cushion projecting from its outer end, the same, when used, being affixed to the side of a room, in such position as to impinge against the door when the latter is thrown back, in order to prevent the noise and injury which might otherwise arise by the concussion of the door against the mop-board or wall of the room. My invention is found in the peculiar construction and arrangement of the device or door-check, as hereinafter described—that is to say, it consists of a flanged elastic cushion, against which the door is to impinge when thrown open and back; a knob, having cylindrical holes at its opposite ends, of different diameters, to receive the said flanged cushion; and a plug or base, which contains a screw, by which the device is to be affixed to the side of a room, such plug being inserted in the larger axial hole of the knob, and serving to retain the said cushion in its normal position therein.

In carrying out the same, I form the rubber cushion A of a semi-spherical shape and with an angular flange, *a*, extending around its base. The body or wooden part of the check I make in two parts, B, C. Through the outer one, viz., B, and axially thereof, I bore a cylindrical hole, corresponding with the diameter of the cushion A; while in the opposite end of such part I form a cylindrical chamber, *b*, of a diameter corresponding with that of the flange *a* of the cushion, such

chamber extending nearly through the said part, as seen in Fig. 2. The rubber cushion is to be inserted in this chamber, and is to be pushed up through it, and so that its convex end shall project from the end of the part B; the flange *a* of the cushion impinging against the bottom of the chamber limiting its degree of protrusion. The part C has its upper portion made of a size to fill the said chamber *b*. From the base of the said part C, and axially thereof, a hole, having the same diameter of the shank of the screw D, is bored, such hole extending about one-third through it, while from the upper end of the said part another hole, *d*, is made, having the same width as the head of the said screw, such hole communicating with the shank-hole and forming a prolongation thereof. The screw is next introduced into the top of the said part C and its head forced down into contact with the bottom of the chamber *c*, the entering end of the screw projecting beyond the base, as seen in the drawing. A cylinder, F, of wood, is next inserted in the hole *d* and forced down upon the head of the screw, such plug or cylinder entirely filling the said hole. The part C is next forced into the chamber *b* and firmly glued therein. The article in this state is complete and ready for use.

I do not claim, broadly, a door-check having an elastic or rubber cushion extending from one of its ends, as I am aware that such is not new.

What I claim as my invention, and as an improved article of manufacture, is—

My said improved door-check, as composed of the flanged elastic cushion A, the tubular knob B having openings at its opposite ends of different diameters, and the plug or base part C containing the screw D, and serving to retain the cushion in its normal position, the whole being constructed and arranged substantially as shown and described.

DON CARLOS SMART.

Witnesses:

F. P. HALE,
F. C. HALE.