

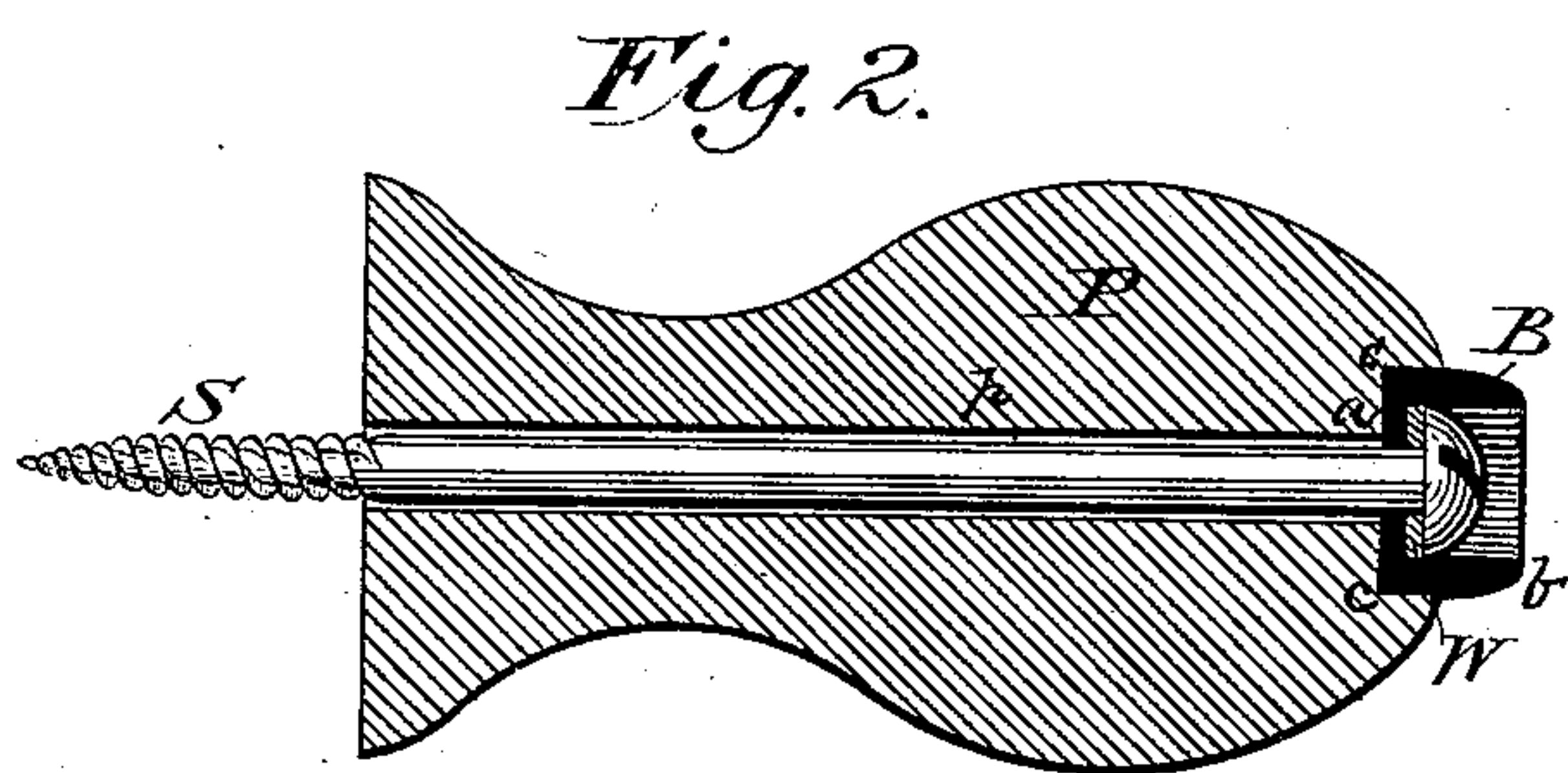
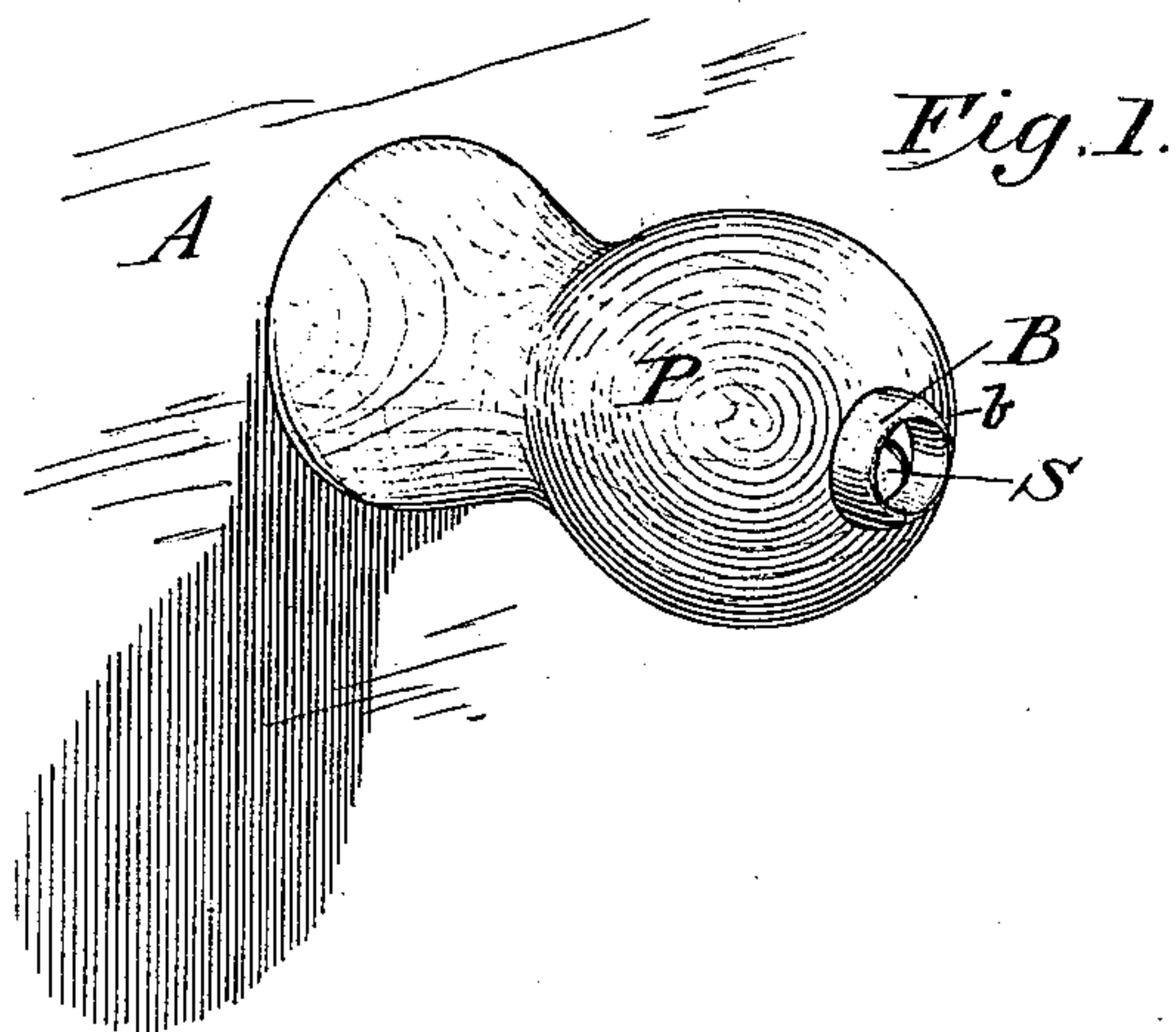
(Model.)

I. P. POULSON.

DOOR CHECK.

No. 256,045.

Patented Apr. 4, 1882.



*Attest.*

*Sidney P. Hollingsworth.*

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# UNITED STATES PATENT OFFICE.

ISRAEL P. POULSON, OF GREENFIELD, INDIANA.

## DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 256,045, dated April 4, 1882.

Application filed January 9, 1882. (Model.)

*To all whom it may concern:*

Be it known that I, ISRAEL P. POULSON, of Greenfield, in the county of Hancock and State of Indiana, have invented certain new and useful Improvements in Door-Checks; and I 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of my improved door-check attached to the wash-board of a room. Fig. 2 is a longitudinal central section of the same.

This invention relates to improvements in door stops or checks, more especially to that class in which a rubber buffer is used.

It is the object of this invention to furnish a stop or check in which the buffer is so placed as to avoid the liability of its being broken or forced out of place by the impact of the door.

Many stops have been devised and provided with buffers; but these are more or less lacking in qualities which my device possesses. A plate has been used having a curved recess or seat in which is secured a rubber cup by the bolt or screw which holds the plate in place. This plate, with its cup, is secured to the door, and such plate is so thin that the knob of the door would strike the wall before the buffer would. Hence an auxiliary stop has to be secured to the wall, against which said latter stop the buffer strikes, the end of the stop taking into the cup. This requires an exact position, and as the door swings the stop on the wall is liable to miss the interior of the cup, and striking against its edge to jam it and force it out of its curved seat. In my device this is all avoided, as will be shown.

The invention consists in the device hereinafter set forth and claimed.

In the annexed drawings, the letter P indicates a stud having a greater length than the ordinary knob of a door. This stud has a lon-

gitudinal bore, *p*, and at its outer end an enlargement of said bore, forming a cylindrical recess, *a*, having a bottom which forms a sharp corner, *c*, with the sides. In this recess is placed the rubber cup B, which has the size and shape of said recess and fits it snugly. The edge of this cup is beveled off on the outside, as shown at *b*, the interior being cylindrical and having a straight face. This cup or buffer is held in the recess by the long bolt S, which passes through the bore without touching the stud, and has a thread for securing the whole device in place. A washer, W, is placed under the head of this bolt to prevent the rubber from being cut. As the door swings back it strikes the edge of the rubber, which relieves the shock. The peculiar shape of the recess keeps the cup firmly in place, the sharp corner holding it tight and preventing it from being pushed out of place; at the same time, owing to its cup shape, the edge of the rubber can yield to the shock. The bevel at the edge makes it sensitive to slight blows, and heavy ones are taken by the full resiliency of the entire cup. The cup, being held loosely, can be turned to accommodate for any unevenness of wear which may occur.

I lay no broad claim to a stud having a rubber buffer at its end; but

What I do claim is—

A door-check consisting of the following parts, to wit: a stud, P, made longer than an ordinary door-knob, and having the bore *p* and enlargement *a*, provided with a sharp corner, *c*, at the bottom, the rubber cup B, made of a size to snugly fit the enlargement or recess *a*, and the bolt S, passing through the cup and stud, and having a screw-thread for securing the device in place, all as set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

ISRAEL P. POULSON.

Witnesses:

ADAMS L. OGG,  
WILLIAM F. MCBANE.