Geo. F. Beardsley.

Door Catch.

No. 121,271. Patented Nov. 28, 1871.

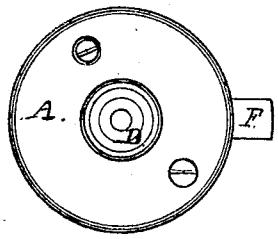


Fig 1.

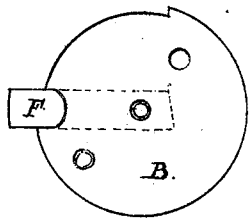


Fig 2.

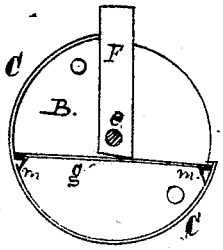


Fig 3.

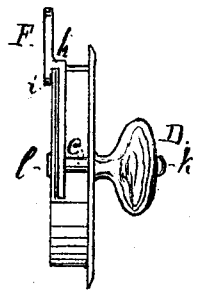


Fig 4.

Witnesses.
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AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

GEORGE F. BEARDSLEY, OF BINGHAMTON, NEW YORK.

IMPROVEMENT IN BUTTONS FOR DOORS.

Specification forming part of Letters Patent No. 121,271, dated November 28, 1871; antedated November 18, 1871.

To all whom it may concern:

Be it known that I, GEORGE F. BEARDSLEY, of Binghamton, in the county of Broome, and State of New York, have invented new and useful Improvements in Door-Catches; and I do hereby declare the following to be a full and exact description of the same, reference being had to the drawing that accompanies and forms a part of this specification.

The object of my improvements is to provide a convenient and ornamental catch for doors, to take the place of sliding spring-catches and buttons, the construction being such as to allow of its being more readily applied than those of similar style heretofore in use. My invention consists in a peculiar construction and arrangement of parts, which render the article susceptible of application to the door without a detachment of any of its parts, being brought to its position from the front or face of the door and not in the edge, both in the structure and method of attaching it to the door, all as and for the purpose hereinafter described and set forth.

Figure 1 is a face or front view; Fig. 2, a view of the interior, the front plate having been removed; Fig. 3, a side or edgewise view, exhibiting the form and manner of arranging the catch.

A is a disk, forming the face-plate, made of sheet metal and more or less ornamented, as may please the public taste; B, a disk of sheet metal, somewhat less in diameter than plate A, and, for nearly three-fourths of its circumferential edge, supplied with a flange or rim, C, the outer edge of which lies against the inner-side surface of face-plate A; C, the flange or rim, as above provided; D, a knob, of suitable material and proper size, for clasping with thumb and finger to operate it; E, a spindle passing through knob D, firmly attaching thereto and passing centrally through plates A and B; F, a latch upon spindle E, arranged for being turned down, as in Figs. 1 and 3, and up to inoperative position, as in Fig. 2; *g*, a spring lying upon the edges *m m* and operating to keep the latch in either of the positions above mentioned; *h*, an offset in the latch, being bent to pass backward close by the edges of plate B, which at that part over which the latch traverses has a little of its outer edge cut away to allow for the thickness of the latch F, (see Fig. 4,) which from this point is continued in its general direction forming the outer end which enters the jamb-casing; *i*, a small lip extending slightly over the edge of plate B, for strengthening the outer end of latch F; *k*, a small head on the front end of spindle *e* to prevent the knob from being drawn off; *l*, the inner end of spindle *e*, flanged or headed sufficiently to keep it in its place. The object of constructing the shell of this catch in the form I do is to obviate the mortising into the edge of the door to which it is to be applied, and to save the taking of the article in pieces when it is to be attached, this only requiring a hole of the diameter of plate B to be bored in the face of the door, and in the edge a single slot the thickness of the latch F, when it may be, while the door is shut, slipped into its place and secured by screws, one or more, passing through plates A and B and into the door beyond. I turn the latch F backward at *h*, so that the end which enters the jamb-casing may do so much further from the face surface or edge thereof, so that there shall not be danger of its tearing away the wood by any careless attempting to open the door before the latch is raised.

In structure my device is very economical, and in the attachment I save much labor and expense; for I have not to cut a deep mortise in the edge of the door, which process is quite difficult in small doors, especially those set with glass, as they require to be stayed or held by some assistant; but boring a simple round hole in the door at the proper place, while the same is closed; and then, having swung it open, cut in the edge just sufficient slot for the catch end of latch F, I insert the catch in front and without, in any manner, detaching any of its parts. The operation of the spring is not otherwise than in catches upon carriage-doors, and I do not claim anything thereto, either in structure, form, or operation.

What I claim as new and of my invention, and desire to secure by Letters Patent, is—

The combination of the face-plate A, back flanged plate B, latch F, with offset *h* and lip *i*, said latch being operated by spindle *e*, all arranged as and for the purpose described.

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

Witnesses: GEO. F. BEARDSLEY.

R. H. MARSH,

D. C. COLBY.

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