

(No Model.)

W. G. COLLINS.
STAIR CARPET FASTENER.

No. 444,589.

Patented Jan. 13, 1891.

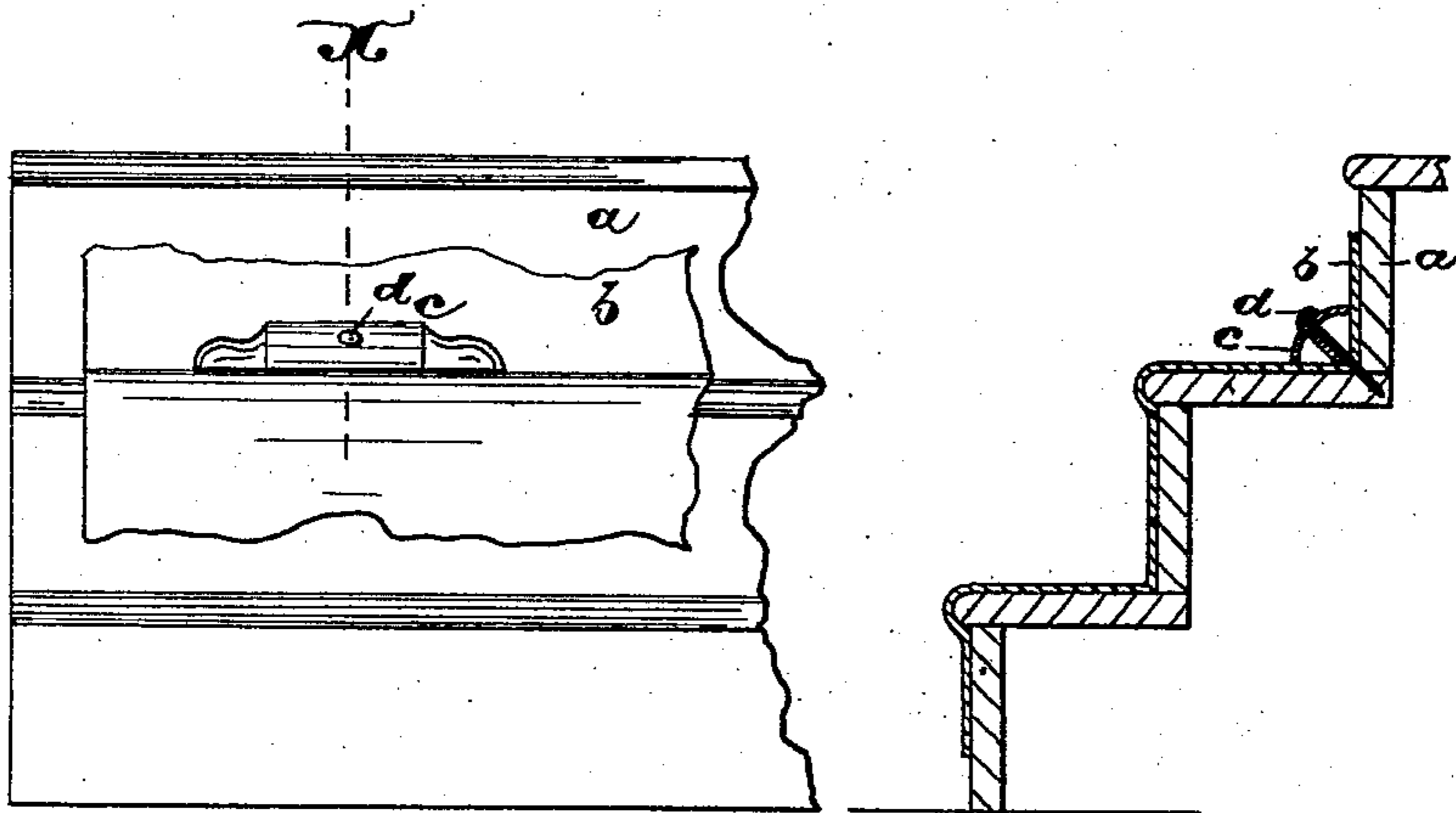


Fig. 1

Fig. 2

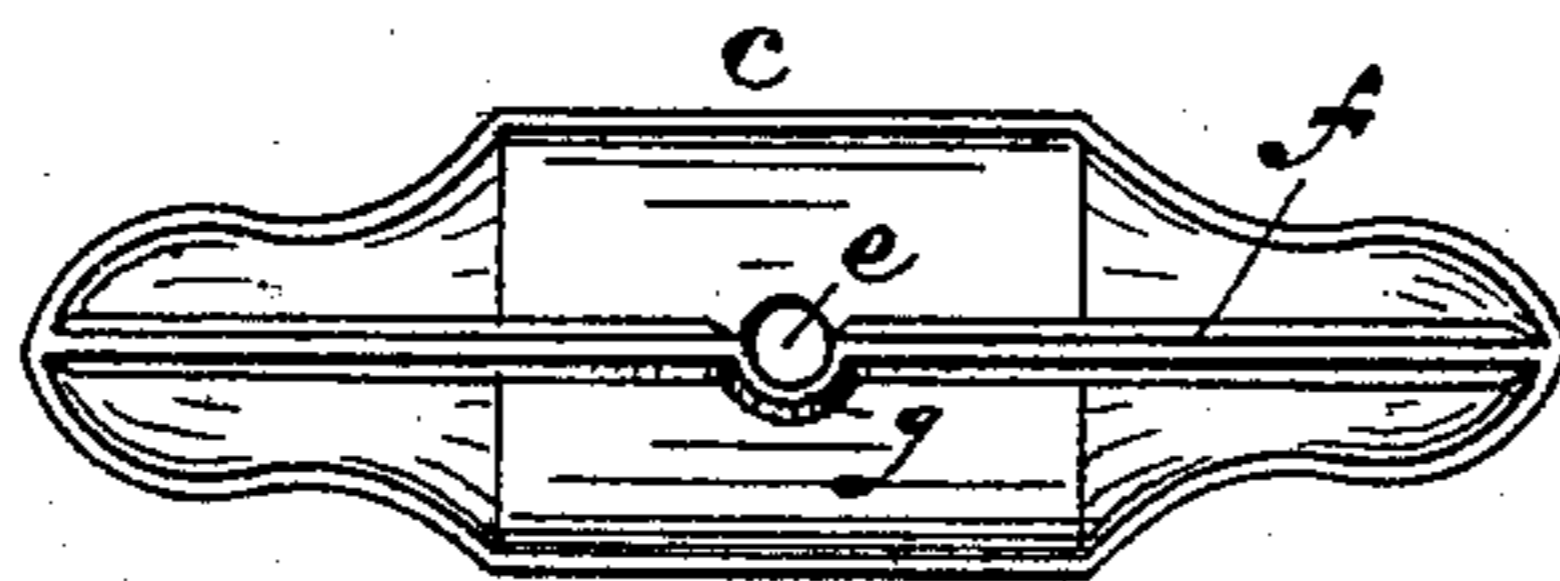


Fig. 3.

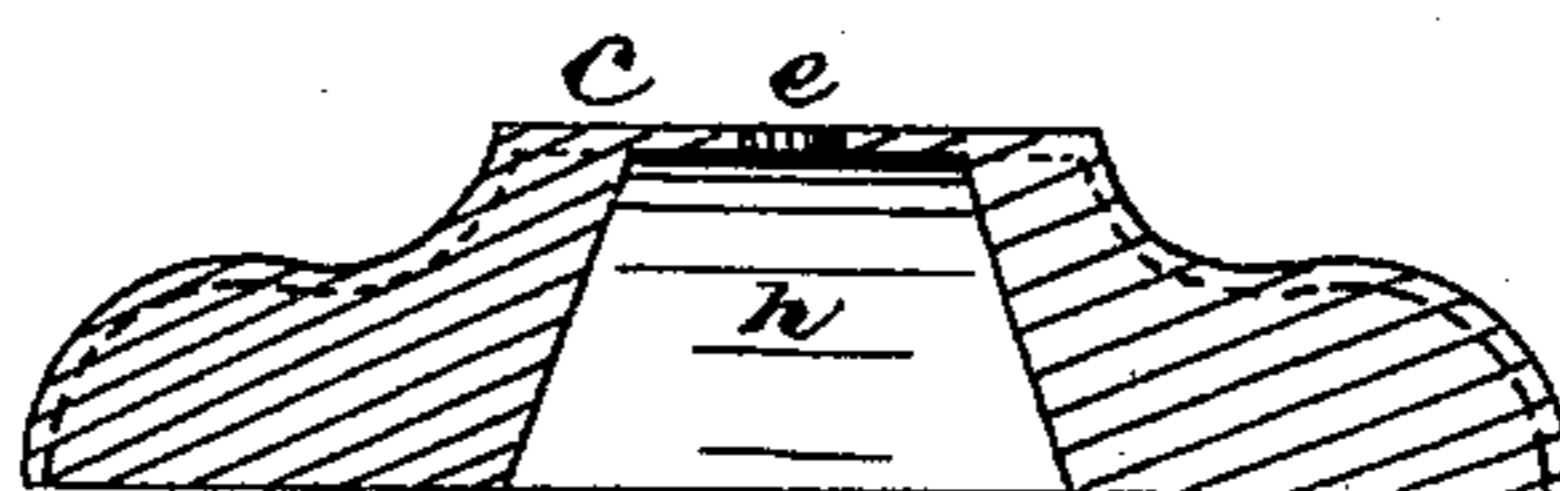


Fig. 4.

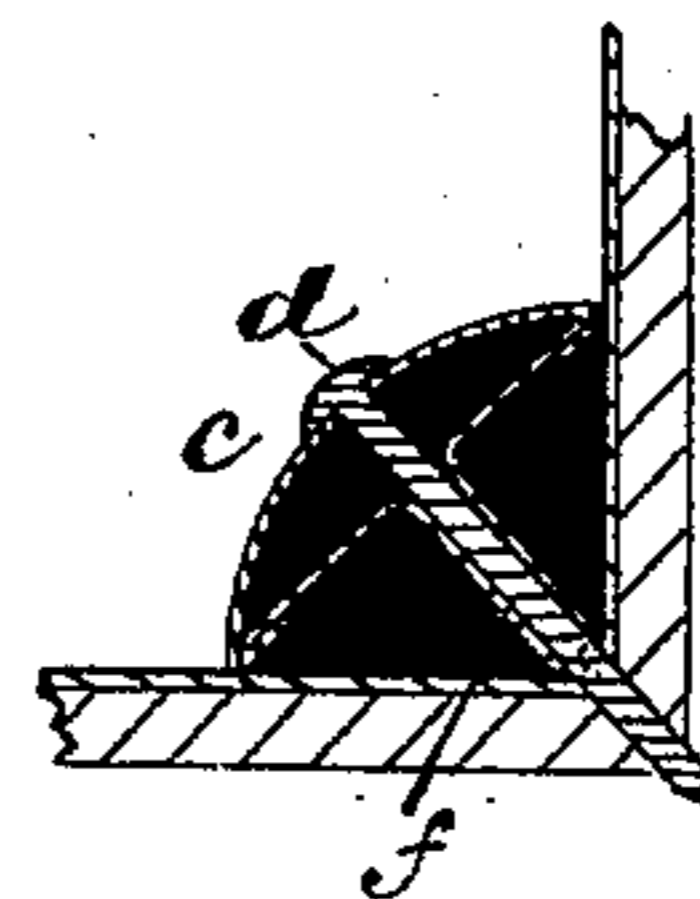


Fig. 5.

WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM G. COLLINS, OF EAST ORANGE, NEW JERSEY.

STAIR-CARPET FASTENER.

SPECIFICATION forming part of Letters Patent No. 444,589, dated January 13, 1891.

Application filed July 27, 1889. Renewed November 15, 1890. Serial No. 371,491. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM G. COLLINS, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Stair-Carpet Fastenings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as 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.

The object of this invention is to reduce the cost of manufacturing stair-carpet buttons or fasteners and to obtain a simple, strong, and more durable article; and it consists in the improved stair-carpet button or fastener having the peculiar construction, arrangement, and combinations of parts substantially as will be hereinafter set forth, and finally be embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters indicate corresponding parts in each of the several figures, Figure 1 is a front elevation of a portion of a stairway, showing a stair-button in holding relation to the carpet. Fig. 2 is a section of the same, taken on line *z*. Fig. 3 is an under side plan of the said button. Fig. 4 is a longitudinal section showing a modified construction of the same, and Fig. 5 is a sectional view showing a certain rib made of an independent piece from the face-plate.

In said drawings, *a* indicates a stairway, *b* a carpet thereon, and *c* a triangular button secured in the angle formed by the step and riser of the stairway by means of a fastening pin or screw *d*, which passes through a perforation *e*, Figs. 3 and 4, in the concave face-plate of said button down through the stair-carpet into the stairway.

The said button or fastener is preferably formed of a single casting, consisting of a convex face-plate having a central longitudinal rib *f*, formed on its concave or hollow side, which rib extends centrally from end to end of the said face-plate, giving additional strength to the same. The edge of the said

rib extends out flush with the inner angle of the face-plate and presents a long bearing by which the carpet is pressed into the angle between the step and riser. The face-plate is made to taper at its opposite ends, so as to form obtuse angles, from which the dust may be readily swept, and the ends are closed down against the carpet, filling the angle, so that said dust cannot settle beneath the button. Where the rib lies close to the perforation *e*, the former is turned out of a straight course, as at *g'* in Fig. 3, to allow for the passage of the nail *d*; but the course of the rib may be interrupted at this point, as at *h* in Fig. 4, to allow such passage, the rib in that case not extending fully across the inside of the button, as will be understood. While I prefer, ordinarily, to make the strengthening-rib integral with the concave plate, I may under certain circumstances, form the parts in separate or independent pieces, as in Fig. 5. Where the rib is formed by bending a sheet-metal plate, the face-plate and rib-plate may be united in any suitable manner to secure the desired result.

On each side of the rib the fastener is hollowed out, so that it will not present a broad bearing on the carpet, whereby the nap is not pressed down. Thus after lying a year, more or less, and the relation of the carpet to the fastener is changed, so that the location where the fastener was stationed is brought to, say, a point in front of the riser, the mark caused by the compression of the nap by the fastener will not be so apparent, it not being a broad surface, but a mere outline, as will be understood. By forming the rib with depressions on each side, as shown, I am enabled to secure an additional advantage in manufacturing. The rib serves as a finger-piece, and the depressions on each side serve as receptacles for the ends of the fingers, so that in buffing the workman may readily and securely grasp the fastener and hold it to the wheel. As a result, the cost of finishing is greatly reduced as compared with fasteners having plane faces lying at right angles one to the other.

Having thus described the invention, what I claim as new is—

The improved stair-button or fastener here- in described, consisting of an angular casting

which is hollow on the under side, and in the center of said hollow is provided with a longitudinal rib adapted to press the carpet into the angle formed by the step and riser of the
5 stairway, substantially as and for the purposes set forth.

In testimony that I claim the foregoing I

have hereunto set my hand this 15th day of July, 1889.

WILLIAM G. COLLINS.

Witnesses:

CHARLES H. PELL,
E. L. SHERMAN.