(No Model.)

W. G. COLLINS.

STAIR CARPET FASTENER.

No. 456,285. Patented July 21, 1891.

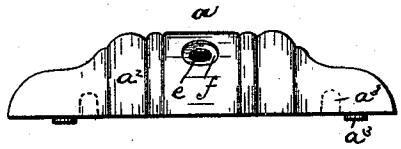

Fig. 1.

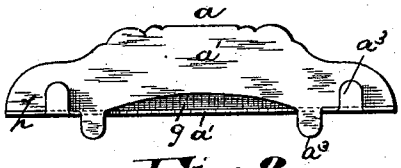

Fig. 2.

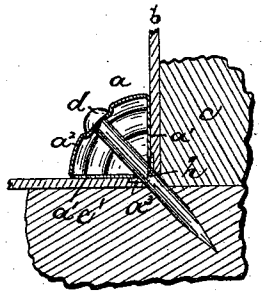

Fig. 3.

WITNESSES: INVENTOR:

Oscar A. Michel.
E. L. Sherman

William G. Collins,

BY Drake & Co ATTY'S.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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

STAIR-CARPET FASTENER.

SPECIFICATION forming part of Letters Patent No. 456,285, dated July 21, 1891.

Application filed March 12, 1890. Serial No. 343,638. (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 Buttons; 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.

This invention relates to that class of stair-carpet fasteners commonly known as "stair-buttons," in which the two inner and lower sides are made to lie at right angles to one another in correspondence with the angle formed by the step and riser of the stairway, and the third or exposed side is made ornamental and bent downward or backward, or is convexed at all its edges to engage the carpet and prevent dust from entering under said button and settling where it cannot be easily removed by a broom in ordinary sweeping. The said buttons are employed independent of stair-rods in holding the carpet in place.

The objects of the invention are to economize material in the construction of said button, to reduce the operations and processes incident to such construction, to secure a fastening of greater strength compared with the amount of metal employed, and to facilitate the operation of manufacturing.

The invention consists in the improved stair-button and in the arrangements and combinations of parts of the same, substantially as will be hereinafter set forth, and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters indicate corresponding parts in each of the figures, Figure 1 is a front elevation of the improved fastener. Fig. 2 is a rear view of the same, and Fig. 3 is a sectional view showing the relation of the button to the stairway.

In said drawings, *a* indicates the button, which is made of one piece of sheet metal.

b indicates the stair-carpet, which is held in place by said fastener, and *c c'* are respectively the riser and step of said stairway.

d indicates the screw or nail, by means of which the button is held to the step or riser, the said nail or screw passing through a perforation *e* in the ornamental front plate, and the head thereof lying in recess *f*, formed around said perforation, as will be fully understood. The said ornamental front plate is concavo-convex in all directions, so that the edges thereof will lie against the carpet not only at the top and bottom of the device, but also at the ends, closing said ends, so that dust cannot get beneath the fastener.

At the edges of the ornamental concavo-convex front plate a^2 are formed integral therewith the rear plates a' a'. These are formed to lie parallel with the step and riser, and are at their opposite ends made broad enough to meet at the angle, as shown in Fig. 2. Said plates a' a' are preferably suitably connected at said angle *h*, preferably by means of the lips or lugs a^3 a^3, which extend oppositely from the edges of said plates, so as to lock said plates together. At the center of said plates the same are cut away or open, as at *g*, to allow the passage of the nail or screw *d* into the carpet and stairs.

The convex face a^2, taken in connection with the rear plates a' a', integrally connecting therewith along the longitudinal edges, serves to give great strength to the button, so that it will resist the blow of a hammer inadvertently given in driving the nail or of the foot in ascending the steps, and in prying the button up when removing the carpet great stiffness to resist the leverage is secured, as will be understood.

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

1. The improved stair-button herein described, combining with the ornamental front plate rear plates a' a', which are connected or locked at the edges forming the right angle, substantially as set forth.

2. The improved stair-button herein described, combining with the ornamental front plate rear plates a' a' and lugs a^3 a^3, all integrally united, substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 7th day of March, 1890.

WM. G. COLLINS.

Witnesses:
CHARLES H. PELL,
E. L. SHERMAN.