

(No Model.)

W. G. COLLINS.
STAIR CARPET FASTENER.

No. 418,972.

Patented Jan. 7, 1890.

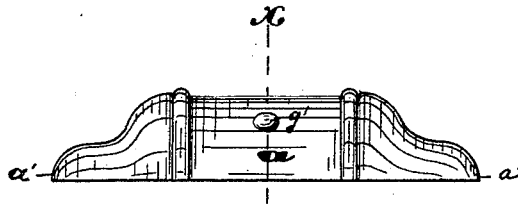


Fig. 1.

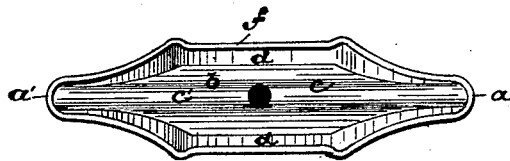


Fig. 2.

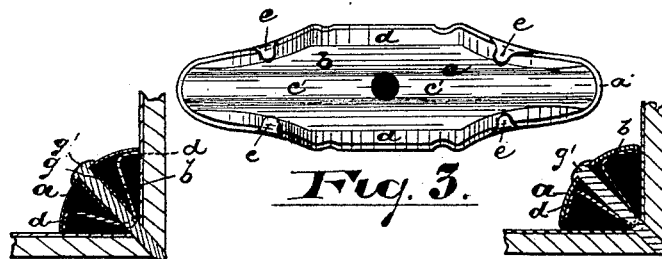


Fig. 3.

Fig. 4.

Fig. 5.

— WITNESSES: —

— INVENTOR —

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UNITED STATES PATENT OFFICE.

WILLIAM G. COLLINS, OF NEWARK, NEW JERSEY.

STAIR-CARPET FASTENER.

SPECIFICATION forming part of Letters Patent No. 418,972, dated January 7, 1890.

Application filed October 7, 1889. Serial No. 326,206. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM G. COLLINS, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Stair-Carpet Fasteners; 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 constructing stair-carpet fastenings of a particular class and to secure increased strength, neatness of finish, and lightness.

The invention consists in the improved stair-carpet fastening having the arrangements and combinations of parts substantially as and for the purposes set forth.

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 the improved fastening. Fig. 2 is a plan of the under side of the same. Fig. 3 is a similar plan showing a modification in the construction, and Figs. 4 and 5 are sections on line *x*.

In said drawings, *a* indicates a sheet-metal outer plate which is concavo-convex in cross-section, and when taken longitudinally tapers toward the opposite ends, so that the said opposite ends lie snugly in the angle formed between the steps and riser of the stairway, forming open angles from which the dust may readily be swept, as will be understood.

On the inner concave side of the said plate *a* is secured an inner sheet-metal plate *b*, which is longitudinally bent, as indicated in Figs. 4 and 5, to form an angular strengthening-rib *c*, the rounded edge *c'* of which lies about in line with the extremities *a'* *a'* of the outer plate. The sides of the said inner plate are again bent to form outwardly-extending flanges *d d* along the edges which lie against the inner face of the outer plate, as shown, giving stiffness to the same. The edges of the outer plate are turned backward and around the edges of the inner plate either as in Fig. 3, where lugs *e*, formed on the outer plate, are bent around the edges of the inner plate, or, as in Figs. 2 and 5, where the con-

tinuous edges *f* are turned around to hold the parts together. The rib *c* serves to give strength to the button and to provide a longitudinal projection which will serve to press the carpet smoothly into the angle of the stairway.

Where the angle forming the rib is not very acute, as in Fig. 4, and I desire to strengthen the center of the outer plate at the nail-perforation, whereby the said outer plate will not be easily indented in driving the nail so that the head presses unduly upon the outer plate, I have provided a tubular support or brace *g*, (shown in Fig. 4,) which extends across the interior chamber from the edge *c'* and rests against the front plate. Said brace may be other than a tube and may be secured in place by solder, by riveting, or by simply being fitted in place, so as not to allow of disarrangement. Ordinarily, however, the brace will be dispensed with, as the sides forming the edge *c'* will be brought more closely together, as in Fig. 5, and thus the center will be sufficiently braced to secure the desired result.

At the center of the outer and inner plates the same are perforated to allow of the passage of the fastening-nail *g'*, which latter preferably passes through the tube *g* when the same is used.

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

1. The combination, with the outer plate of a carpet-fastener, of a sheet-metal inner plate secured to said outer plate and bent to form a longitudinal rib *c*, substantially as and for the purposes set forth.

2. The improved carpet-fastener combining with the concavo-convex outer plate a sheet-metal inner plate bent longitudinally to form an edge *c'*, and provided with flanges *d*, which engage the outer plate at the edges thereof, substantially as set forth.

3. The improved carpet-fastener combining the outer plate, inner plate, and a support or brace *g*, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 4th day of October, 1889.

WILLIAM G. COLLINS.

Witnesses:

CHARLES H. PELL,
ARTHUR MACKINNON.