No. 888,713. PATENTED MAY 26, 1908.

J. L. KINGSTON.

STAIR CARPET FASTENER.

APPLICATION FILED AUG. 3, 1906.

Fig. 1.

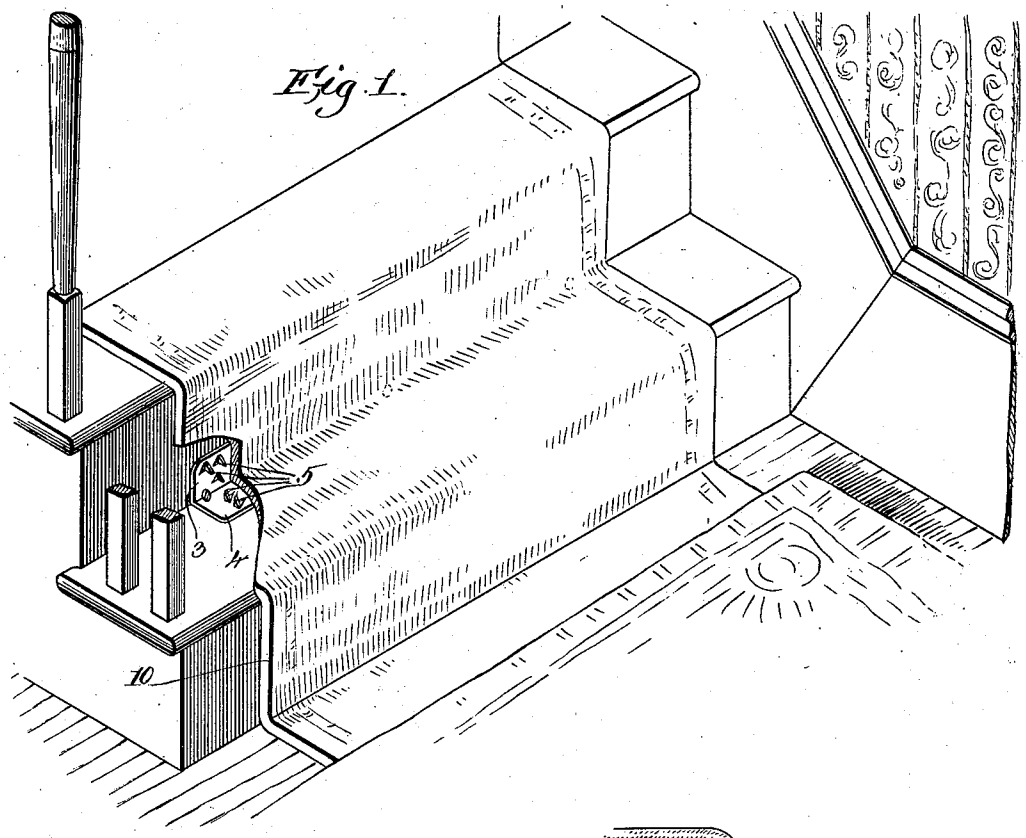


Fig. 2.

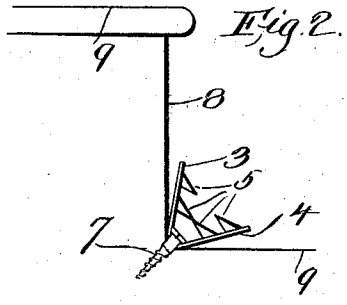


Fig. 3.

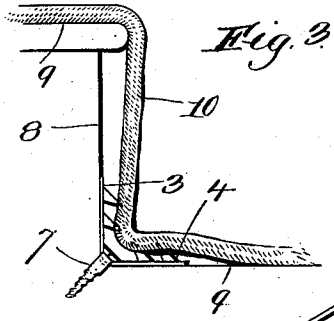


Fig. 4.

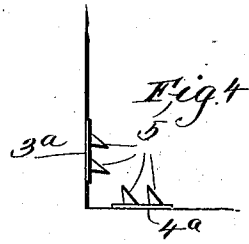
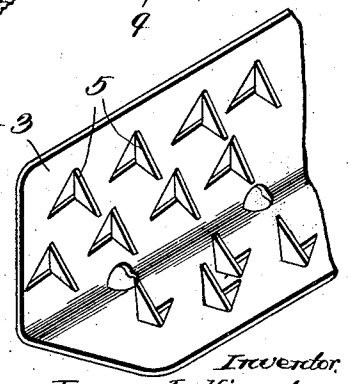


Fig. 5.



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STAIR-CARPET FASTENER.

No. 888,713. Specification of Letters Patent. Patented May 26, 1908.

Application filed August 3, 1906. Serial No. 328,989.

To all whom it may concern:

Be it known that I, JAMES L. KINGSTON, a citizen of the United States, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Stair-Carpet Fasteners, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawing representing like parts.

This invention relates to a device for fastening or holding stair carpets in place, and especially to that type of such devices which are permanently secured to the treads or risers of the stairs, and which by their engagement with the back face of the carpet serve to hold the carpet in the corners between the treads and risers. Some carpet fasteners of this character are so constructed that more or less of a fold is made in the carpet when it is inserted between the roughened or serrated portions thereof, and the result of this is that oftentimes so much of the carpet is taken up in the fold that the continuity of the figure of the carpet is destroyed.

One of the objects of my invention is to provide a novel device of this character which will serve to securely hold the carpet in place without destroying in the least the continuity of the figure of the carpet; and another object is to provide a novel device of this character which takes up so little room that its presence beneath the carpet cannot be visually detected.

Other objects of the invention will more fully appear after one embodiment thereof has been described.

In the drawings, Figure 1 is a perspective view of a portion of a flight of stairs showing my improved carpet fastener; Fig. 2 is a side view showing the fastener in place; Fig. 3 is a similar view showing the carpet applied; Fig. 4 shows a modification; Fig. 5 an enlarged view of a portion of the fastening device.

The fastening device comprises one or two plates or leaves 3 and 4 which are in sheet form, and which are provided with a plurality of rows of prongs or teeth 5 that extend from the side of the sheet or plate. Any suitable sheet material may be employed, but preferably I will use sheet metal and will form the teeth 5 by striking up a portion of the sheet metal, as shown in Fig. 5. I prefer to arrange the teeth 5 in two rows, the teeth of one row having a staggered relation to those of the other. Where the teeth are struck from sheet metal, as shown in Fig. 5, the width of the teeth extend transversely to the width of the plate, and both edges of each tooth inclines forwardly toward the other plate as best seen in Fig. 5.

I prefer to use two plates on each stair, these plates being designated 3 and 4 respectively, and they may be connected together or may be made separate from each other. In the preferred embodiment of my invention they are connected together (both forming integral parts of the same sheet metal) and these two plates are bent to make an acute angle with each other, as shown in Fig. 3.

The fastening device is provided with a plurality of holes in the line of the bend, and it may be fastened in place by means of screws 7 which are inserted through said holes and enter the stairs in the corner between the riser 8 and the tread 9, as best seen in Figs. 2 and 3. Where this fastening device is employed the screw does not make any objectionable hole in either the riser or the tread of the stairs.

In Fig. 4 the two plates 3^a and 4^a are separate from each other and each is independently fastened in place, the plate 3^a being fastened to the riser and the plate 4^a to the tread. In other respects the plates 3^a and 4^a of Fig. 4 are similar to the plates 3 and 4, of Figs. 2 and 3, that is, they each have the inclined pointed teeth 5 extending perpendicularly from the side thereof. After the fastening device is secured in place the carpet 10 may be fastened by firmly forcing it into the angle between the plates 3 and 4, the teeth 5 by their engagement with the back face of the carpet serving to hold the latter in place.

On referring to Fig. 3 it will be seen that no appreciable length of the carpet is taken up in making a fold to be inserted between the two sets of opposed teeth, and, therefore, no part of the figure of the carpet is covered up or lost. I regard this as quite an important feature of my invention.

In the form of the invention shown in Figs. 2 and 3 the plates 3 and 4 naturally assume a position slightly separated from the tread

and the riser, but by driving the screws 7 more firmly home the plates 3 and 4 are separated and brought against the tread and riser if desired.

In securing some carpets in place it may be desirable that the two plates 3 and 4 should form an acute angle, and in securing other carpets in place it may be desirable to have said plates lie flatly against the tread and riser. The position of the plates relative to each other can be adjusted by varying the position of the screws 7, as will be obvious.

It will be noted that the teeth 5 are struck up from the side of the plates 3 and 4 and stand at right angles thereto, and that they are inclined slightly, the teeth of each inclining or pointing toward the other. With this construction the carpet is held securely merely by the friction of the numerous points and without the necessity of causing said points to be embedded entirely in the fabric of the carpet. The shape of the plates 3 and 4 and their position when in use is such that their presence cannot be visually detected by the peculiar shape or form given to the carpet. This I regard also as an important feature of the invention.

Having described my invention what I claim as new and desire to secure by Letters Patent is:—

1. A fastener for stair carpets comprising two sheet metal plates arranged at substantially right angles to each other and each having struck up therefrom a plurality of pointed teeth, each tooth having its sides extending at right angles to the plate and both edges inclined toward the other member.

2. A fastener for stair carpets comprising two sheet metal plates arranged at substantially right angles to each other, one edge of one plate being connected to one edge of the other plate, each plate having struck up therefrom a plurality of pointed teeth arranged with their sides perpendicular to the plate and both edges of each tooth of one plate inclining toward the other plate, and means at the connected edges of said plates to secure the fastener in place.

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

JAMES L. KINGSTON.

Witnesses:
LOUIS C. SMITH,
BERTHA F. HEUSER.