W. W. HESSON.

STAIR CARPET FASTENER.

APPLICATION FILED MAY 3, 1909.

942,641. Patented Dec. 7, 1909.

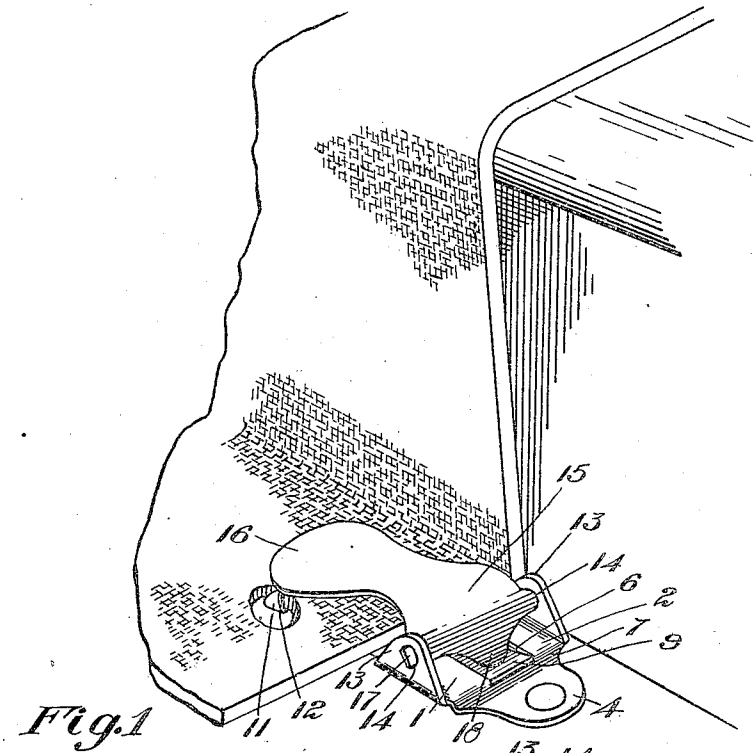

Fig. 1

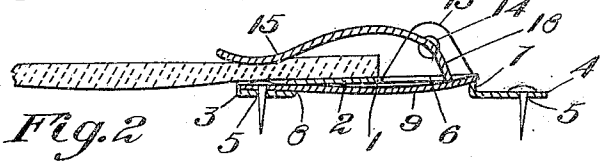

Fig. 2

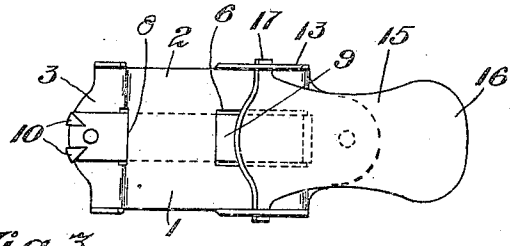

Fig. 3

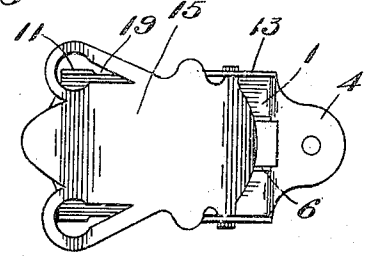

Fig. 4

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STAIR-CARPET FASTENER.

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To all whom it may concern:

Be it known that I, WILLIAM WALLACE HESSON, a subject of the King of Great Britain, and resident of the city of Toronto, county of York, Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Stair-Carpet Fasteners, of which the following is a specification.

The invention relates to improvements in stair carpet fasteners, as described in the following specification and illustrated in the accompanying drawings that form part of the same.

The invention consists essentially in the novel construction and arrangement of parts whereby a lever pivotally supported from a floor plate is held in a closed position with its forward end gripping the carpet by a flat spring supported at both ends above the floor and engaging the downwardly extending tail end of said lever.

The objects of the invention are to mimimize the labor and eliminate the inconvenience incident to the laying of stair carpets, and to devise a fastener of simple and neat construction and cheap to manufacture which will hold the carpet securely, close in to the riser portion of the stair, and from which the carpet may be easily and quickly detached.

In the drawings, Figure 1 is a perspective view of my device shown in position on a stair-way and holding the carpet, said carpet being broken away to disclose a portion of the holder. Fig. 2 is a vertical longitudinal section of the device shown in its closed position and gripping the edge of the carpet. Fig. 3 is a plan view of the device showing the gripping lever thrown back to the open position. Fig. 4 is a plan view of a slightly modified form of the device.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings, 1 is the back or floor plate preferably formed of sheet metal and having a raised central portion 2, the end offset portions 3 and 4 being adapted to rest on the tread portion of the step and having nail holes 5 therethrough.

6 is a longitudinal slot cut in the central raised portion 2 centrally of its width and extending forwardly from the vertical wall 7 to a point intermediate of its length.

8 is an orifice formed in the upright wall of the offset portion 3 in longitudinal alinement with the slot 6.

9 is a spring member formed of suitable spring material and having a hole through one end thereof adapted to register with the nail hole 5 in the offset end 3 of the plate 1. The spring 9 is held securely to the plate 1 by a pair of lugs 10 extending from the offset end 3 and lapped over the end of said spring and the said spring extends through the orifice 8 and under the raised central portion 2, the inner end extending through the slot 6 and resting on the upper edge of the wall 7.

11 are hook shaped members forming part with the offset portion 3 of the plate 1, said members being bent upwardly at the outer edges of said plate and at right angles thereto, and sharpened at the points and having curved rearward edges 12. 13 are lugs also forming part of the plate 1 and bent upwardly from the sides thereof and having the orifices 14 therein.

15 is a lever having a broad flat tongue shaped end 16 adapted to rest upon the surface of the carpet between the hook shaped members 11 and the lateral projections 17 extending into the orifices 14 in the lugs 13 and forming pivots for the said lever.

18 is the tail end of said lever 15 bent downwardly and engaging the spring 7 and depressing said spring in its closed position, said tail end being so arranged in relation to the tongue portion that when the tongue is in its closed position the said tail end will have moved slightly past the perpendicular in relation to the spring. The tension of the spring is therefore slightly relieved but in order to release the carpet the clip has to be lifted against the full tension of said spring.

In Fig. 4 the form of the tongue portion is of slightly different design, it being broader and more fanciful and has the openings 19 at the forward end through which the points of the hook shaped members 11 project when the tongue is closed down.

In the use of this device, the plate 1 is nailed down securely to the step, the inner side being arranged close to the riser. The carpet is then drawn tightly over the nose of the tread immediately above, and pressed down over the forward portion of the plate, the hook shaped members 11 engaging the said carpet. The lever 15 is then swung in-

wardly on its pivot and pressed downwardly, the tongue portion of said lever pressing the carpet over the upturned hook shaped members and holding the carpet securely.

The arrangement of the spring is very important, it is nailed securely at one end with the plate and its opposite end rests upon the top of the wall or shoulder portion 7 and is free to slide so that on pressure being applied to the top the said spring will bow between its ends and allow the lever 15 to be sprung down to its closed position. As the lever is swung on its pivots the tail end portion forces the spring downwardly, sliding on its surface and as the said tail portion is arranged to move past the perpendicular in relation to the spring, the said lever is held securely.

The device when in its closed position holds the carpet very securely and when it is desired to remove the carpet it is merely necessary to pry up the first pair of clips on the stair-way and then pull on the carpet. The pulling upwardly on the carpet will swing the levers upwardly on their pivots and allow the carpet to come away. Thus the carpet may be taken up very quickly without the use of any instrument whatever, except perhaps on account of stiffness of the spring it may be necessary to pry up the first clips with a screw driver or other such instrument.

I am aware that fasteners of a somewhat similar nature have been devised but the present invention has been devised to provide a very strong clip which will hold the carpet securely and which may be produced at a very low cost and also to allow of the carpet being held close in to the foot of the riser portion of the stair.

What I claim as my invention is:—

1. In a stair carpet fastener, a plate longitudinally slotted having base portions adapted to be secured to the floor and supporting the slotted and central raised portion, a spring held in suspension by said plate beneath said central raised portion, and a lever pivotally supported above and by said plate and having a tongue portion adapted to engage the carpet and a tail piece bent downwardly and engaging said spring.

2. In a stair carpet fastener, a plate longitudinally slotted having offset ends forming base portions adapted to be secured to the floor and supporting a slotted and central raised portion, one of said offset portions having an orifice therethrough, a spring secured to one of said offset portions and extending through said orifice and beneath said central raised portion and having its inner end projecting through said longitudinal slot, and a lever pivotally supported above and by said plate and having a tongue portion adapted to engage the carpet and a tail piece bent downwardly and engaging said spring.

3. In a stair carpet fastener, a plate longitudinally slotted having offset portions forming bases adapted to be secured to the floor, one of said offset portions being arranged at one end of said slot and the other of said offset portions having an orifice through the upright portion in longitudinal alinement with said slot and lugs formed at the outer end thereof, a spring extending through said orifice and held securely to the upper side of the adjacent offset portion or base by the lugs forming part with said base folding thereover, said spring at its other end extending through said longitudinal slot and slidably supported by the upright wall portion of the other of said offsets, and a lever pivotally supported above and by said plate having a tongue portion adapted to engage the carpet and a tail piece bent downwardly and extending through said longitudinal slot and engaging said spring.

4. In a stair carpet fastener, a plate longitudinally slotted having base portions adapted to be secured to the floor and supporting a slotted and central raised portion, one of said bases having a pair of hook shaped members extending upwardly therefrom and adapted to grip the carpet, a spring held in suspension by said plate beneath said central raised portion, and a lever pivotally supported above and by said plate and having a tongue portion adapted to engage the carpet and a tail piece bent downwardly and engaging said spring.

5. In a stair carpet fastener, a plate having a slot in the top thereof, and lugs projecting upwardly from the sides and offset portions forming bases and hook shaped members projecting upwardly therefrom, a spring suspended from said plate beneath said slot, a lever pivotally supported in said upwardly extending lugs and having a broad flat tongue shaped portion extending forwardly and adapted to engage the carpet, and a tail piece bent downwardly and extending through said slot and engaging said spring.

Signed at the city of Toronto, county of York, Province of Ontario, in the Dominion of Canada.

WILLIAM WALLACE HESSON.

Witnesses:
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E. HERON.