

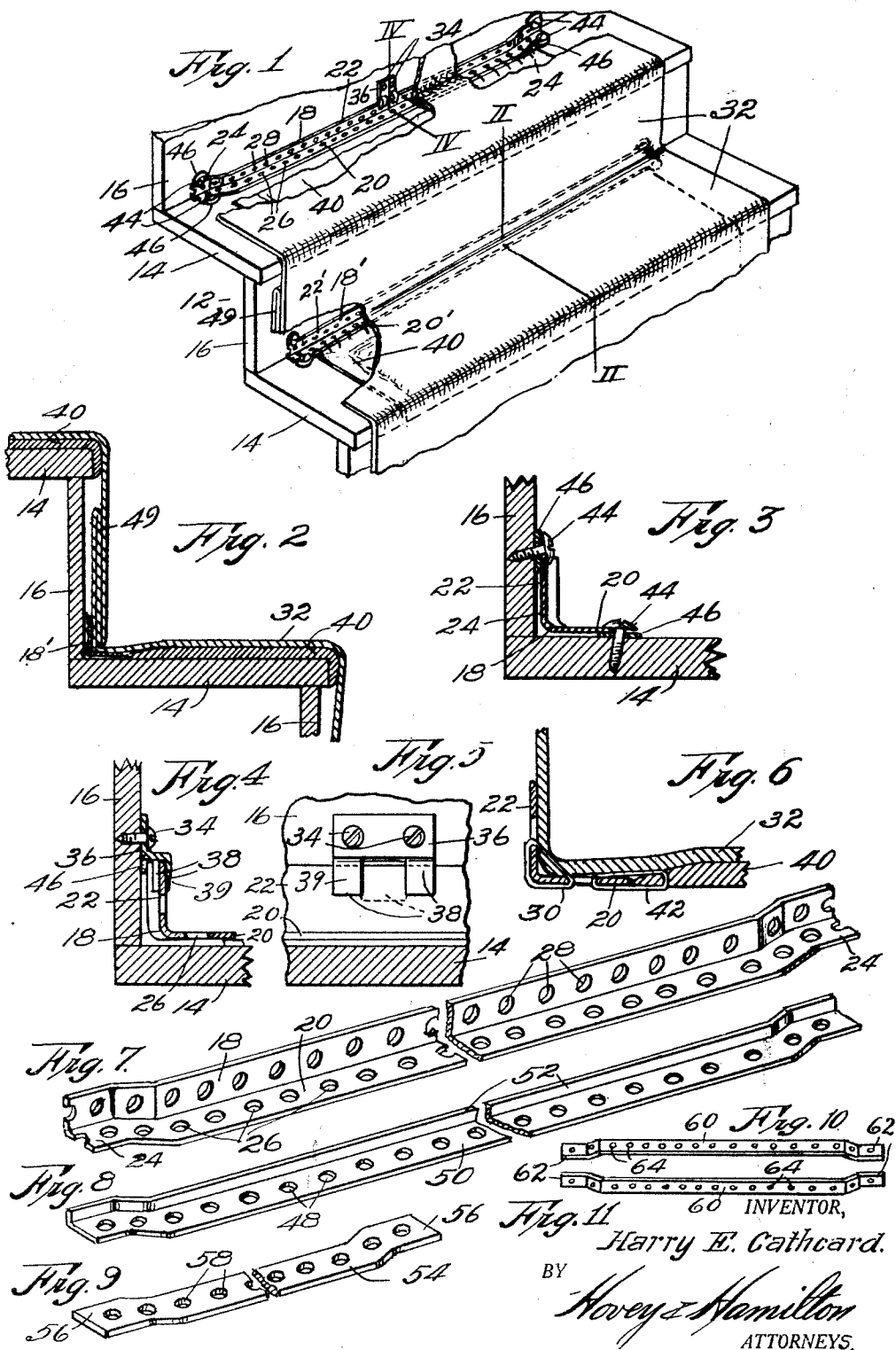
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STAIR CARPET SECURING STRIP

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STAIR CARPET SECURING STRIP

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This invention relates to improvements in carpet securing strips and especially to carpet securing strips adapted to secure a stair carpet to the stair structure adjacent the tread and riser.

The principal object of the present invention is the provision of a carpet securing strip comprising an elongated member having its end portions offset with relation to its body portion so that when the carpet is attached thereto and the same is secured to the stair, the carpet will lay smoothly over the stair steps and the padding with its outer edges positioned snugly against the stair tread.

Another object of the present invention is the provision of a carpet securing strip formed of an elongated angled member having its end portions offset from the body portion thereof, said offset portions being positioned in parallel relation to the body portion and in alignment with each other, said angled member having a series of holes formed therein whereby thread may be stitched there-through to secure the strip to the carpet.

A further object of this invention is the provision of a carpet securing strip and adjustable means for securing it to the stairs in spaced relation to the tread and riser so as not to mar the same.

A yet further object of the present invention is the provision of a carpet securing strip which prevents sagging of the carpet at the riser, allows for fold to be made in carpet on riser of step, allows easy removal of carpet for cleaning purposes and does not injure carpet where strip is attached.

Other objects of this invention are simplicity and economy of construction, ease of operation and adaptability to stairs of various shapes and sizes. These objects are attained by the mechanism illustrated in the accompanying drawings in which,

Figure 1 is a perspective view of a stair structure provided with a carpet which is secured thereto by means of a carpet securing strip embodying this invention.

Fig. 2 is an enlarged sectional view taken on line II—II of Fig. 1.

Fig. 3 is an enlarged fragmentary view of

a stair tread and riser showing the strip and its securing means in position.

Fig. 4 is an enlarged fragmentary sectional view taken on line IV—IV of Fig. 1.

Fig. 5 is an enlarged fragmentary view showing the intermediate carpet strip securing member in operative position.

Fig. 6 is a fragmentary sectional view showing the carpet securing strip attached to the carpet and also to the padding or lining which is positioned beneath the carpet.

Fig. 7 is a perspective view partly broken away of the carpet securing strip.

Fig. 8 is a perspective view partly broken away of a modified form of the carpet strip which is of angular cross section and provided with but one series of holes.

Fig. 9 is another modified form of the carpet securing strip which is of a flat construction.

Fig. 10 is a front elevation of a modified form of the carpet securing strip in which the end portions thereof are offset in two directions from the intermediate body portion thereof.

Fig. 11 is a plan view of the modified form as shown in Fig. 10.

Like reference characters designate similar parts throughout the several views and the numeral 12 designates a stair construction provided with threads 14 and risers 16. While I have shown the conventional straight stair construction, yet it will be apparent that the present invention may be applied to other types such as spiral stairs, curved stairs, etc.

Much difficulty has been encountered in properly positioning and securing carpets to stairs, due to the fact that usually a padding is used which is placed beneath the carpet and extends to a line a few inches from the outer edge thereof, thus permitting the outer edge of the carpet to become loose and unsightly. Another objection to the present method of attaching stair carpets is that the carpet is not sufficiently held to its full width to prevent the carpet from wrinkling. The present invention overcomes these difficulties and provides a secure and accurate positioning of a

carpet without the services of an especially skilled mechanic.

The carpet securing strip 18 is preferably made of a strong and rigid material formed into a long strip of angled cross section. The lower leg or base portion 20 of angle 18 is preferably of uniform planar relation throughout its entire length while the up-turned flange 22 is offset at its end portions 24 in such a manner that said end portions are in parallel relation with the main body portion thereof and in alignment with each other.

The base portion 20 and flange 22 are provided with a series of holes 26 and 28 respectively. These holes are positioned preferably in substantially the center of said base portion and flange respectively, thus causing the holes adjacent opposite ends of the strip to be offset from the main series. The edges of the metal around said holes is preferably rounded so that they will be free from sharp edges for reasons hereinafter set forth. Corresponding holes of the series 26 and 28 are preferably in alignment to facilitate the sewing operation when the carpet is sewed to the strip 18 by means of thread or cord 30 as clearly shown in Fig. 6. In performing this sewing operation, the carpet is first pressed down into the angled corner of strip 18 and the needle passed through one hole of the series 26, through the carpet, and then through one of the holes of the series 28. This sewing operation is continued until the strip 18 is attached throughout its entire length to the under side of the carpet.

Referring to Fig. 1, it will be noted that the carpet 32 overlaps both ends of the strip 18, thus completely concealing it from view, while at the same time the carpet is held firmly substantially throughout its entire width to the strip thereby preventing any gathering of the carpet toward the center of the stair. The strip 18 is secured to the stair structure adjacent the junction of the tread and riser by means of screws 44 which are mounted as clearly shown in Figs. 1 and 3 in the tread and riser in such relation that the heads thereof will engage the strip adjacent its ends to secure it in position. To hold the strip in spaced relation to the tread and riser, each of the screws 44 is provided with a washer 46 which is positioned between the stair structure and the strip when in the operative position.

Attached to the riser 16 by means of screws 34 adjacent the center of the strip 18, is a clamping member 36 having down-turned spaced apart fingers 38 which engage the opposite side of flange 22 to secure the strip in fixed relation with the stair. The outer face 39 of the outer fingers 38 may be tapered as shown in Fig. 4 to prevent excessive bulging of the carpet. When the strip used is extra long, any suitable number of these clamping members 36 may be used, also when

the strip is short, they may be dispensed with entirely.

A padding or lining 40 of a width slightly narrower than the width of the stair carpet is placed on the tread beneath said carpet and secured to the strip 18 by means of thread 42 as clearly shown in Fig. 6. To prevent undue wear of the carpet, the padding 40 usually extends over the front edge of the tread 14 to serve as a cushion for the carpet. With the carpet padding and strip positioned as described above, with the carpet securely attached to the irregular strip 18, it will be noted that the carpet will lay smoothly over the padding with its outer edges drawn snugly against the tread. When thicker padding is used, it may be necessary to offset the ends of strip 18 a greater distance from the body portion thereof in order to maintain the carpet in the proper position. When the strip is to be sewed to the carpet as described above, a straight line is first drawn across the underside of the carpet and then the carpet is sewed thereto so that the line will register with the outer irregular line of the base 20 of the strip, thus giving it the proper form to fit the strip and padding.

When positioning strip 18 on the stairs, the screws 44 are loosened so that one end of the strip may be slid there-beneath and since the offset portion of the strip is made sufficiently long to permit considerable longitudinal movement of the strip, the opposite end of strip 18 may be moved to the inside of the opposite set of screws 44 to permit the proper insertion of the same there-beneath; when 18 is thus properly positioned, the screws 44 may be screwed down tightly there-against to prevent any accidental longitudinal movement of the strip.

Referring to Fig. 2 which shows the carpet folded at 49 adjacent the riser, it will be noted that this is accomplished without reducing the width of the stair tread any more than the thickness of the carpet of the fold. This is accomplished by using the strip 18' which is not offset at its ends, and is provided with perforated base portion 20' and flange 22' and permits the changing of the position of the wearing parts of the carpet. When irregular shaped stairs are being carpeted, irregular folds may be made at each step without detracting from the appearance of the carpeting.

The strip shown in Fig. 8 has a series of holes 48 in the base portion 50 and is provided with a plain strengthening flange 52 which may be of any suitable thickness.

The modified form shown in Fig. 9 consists of a flat strip 54 having offset end portions 56 and a series of holes 58 extending the entire length thereof.

Modified form shown in Figs. 10 and 11 comprises an elongated strip 60 of angular cross section and having offset portions 62

at its opposite ends, said offset portions being offset diagonally to the body portion of said angled strip 60 and parallel therewith. Two series of holes 64 are formed in the strip 60 throughout its entire length.

It is not desired to limit this structure to the structures shown and described since many modifications may be made within the scope of the appended claims without departing from the spirit thereof.

What I claim and desire to secure by Letters Patent is:

1. As a new article of manufacture, a carpet securing strip comprising an elongated member of angular cross section having its end portions offset from the body portion thereof, said offset end portions being positioned in parallel relation to said body portion and in alignment with each other.

2. As a new article of manufacture, a carpet securing strip comprising an elongated member having its end portions similarly offset from the body portion thereof and having two series of spaced apart holes through which thread may be passed to secure the carpet to the strip the axes of the holes of one of said series being at an angle to the axes of the holes of the other series.

3. As a new article of manufacture, a carpet securing strip comprising an elongated member, of angular cross-section, having its end portions similarly offset and having holes formed therein through which thread may be passed to secure the carpet to the strip.

4. As a new article of manufacture, a carpet securing strip comprising an elongated member having a base portion and an up-turned flange at one edge thereof, said base portion and up-turned flange each having a series of holes formed therein through which thread may be passed to secure carpet to the strip.

5. As a new article of manufacture, a carpet securing strip comprising an elongated member having its end portions similarly offset in two directions from the body portion thereof, and having a series of holes adapted to receive thread there-through to secure the strip to the carpet.

6. The combination with a stair having a tread and riser meeting at an angle; of an elongated carpet securing strip secured in spaced relation to said tread and riser with its inner portion spaced a greater distance from said riser than are its end portions.

7. The combination with a stair having a tread and riser meeting at an angle; of an elongated carpet securing strip secured in spaced relation to said tread and riser with its inner portion spaced greater distances from said tread and riser respectively than are its corresponding end portions.

8. The combination with a stair having a tread and riser meeting at an angle; of securing means carried by said tread and riser

adjacent the juncture thereof respectively, and an elongated carpet securing strip carried by said securing means in spaced apart relation to said tread and riser, said strip having a series of holes adapted to receive thread there-through to secure the strip to the carpet.

9. The combination with a stair having a tread, a riser and a stair carpet; of a carpet securing strip of angular cross section having offset end portions secured to said stair adjacent the juncture of said tread and riser with its inner portion spaced a greater distance from said riser than are its end portions, and means for securing said strip to said carpet so that the carpet is offset to conform to the shape of the strip.

10. The combination with a stair having a tread and riser, of an elongated carpet securing strip of angular cross section, means for securing the end portions of said strip to said stair with its inner portion spaced a greater distance from said riser than are its end portions, and means carried by said riser for securing the inner portion of said strip thereto.

In testimony whereof I hereunto affix my signature.

HARRY E. CATHCARD.

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