April 1, 1941. E. M. HERSCHMANN 2,237,224

STAIR CARPET

Filed Nov. 2, 1938

Fig. 1.

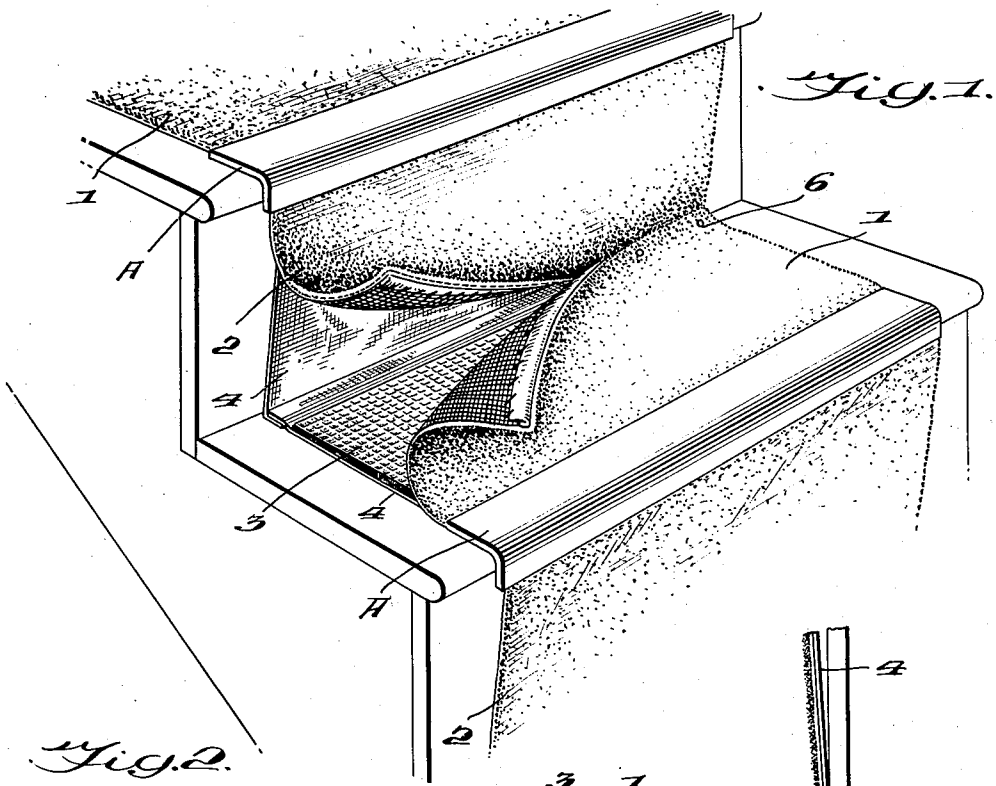


Fig. 2.

Fig. 3.

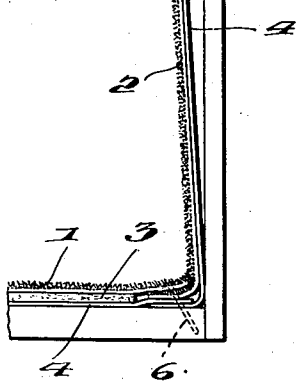


Fig. 4.

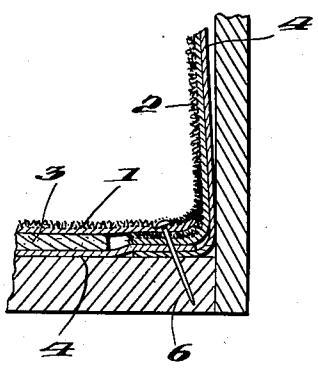
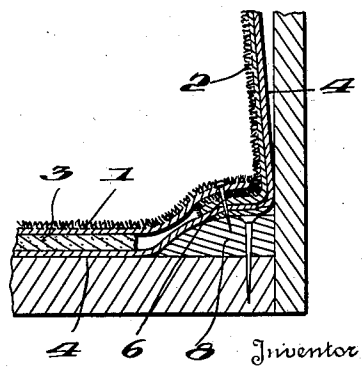


Fig. 5.





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STAIR CARPET

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Application November 2, 1938, Serial No. 238,489

4 Claims. (Cl. 20—79)

My invention relates to an improvement in stair carpets.

To properly and safely carpet the stairway and more especially of public buildings such as theatres, convention halls, hotels, restaurants, offices, showrooms, etc., has been a problem.

In my present invention, it is believed this problem is satisfactorily solved, and in its solution I propose to make the stair covering in individual and independent units, each of which units covers a single step and riser. This makes the construction relatively simple, the fastening of the carpet easy, and replacement of a unit without disturbing the others in case of emergency or necessity a relatively quick operation.

The invention consists in a nosing which goes over the edge and overhang of the step, a separate piece of carpet for the step and the riser, a padding under the step-carpet, and a strip of canvas lining the nosing, step and riser carpets. This canvas may be vulcanized to the under side of the padding and the nosing, and has secured to it by stitching, cementing, pinning, or otherwise, the edges of the step and riser carpet which are made to abut the opposite edges of the nosing with the nap of the carpet just as near flush with the surface of the nosing as possible.

In the accompanying drawing:

Fig. 1 is a view in perspective of a portion of a stairway showing my improved carpeting applied;

Fig. 2 is a sectional view;

Fig. 3 is an enlarged detail showing the carpeting applied at the corner of a step between the tread and a riser;

Fig. 4 is an enlarged detail of a modified construction of a carpeted corner such as shown in Fig. 3, and

Fig. 5 is an enlarged fragmentary detail showing a reinforced seam.

The letter A represents a nosing, preferably of rubber, and with a non-skid surface, and to make it easily discernable in the ofttime subdued light of stairways, it is preferably white in color so that it is easily discernable, and an insurance so far as possible against the danger of slipping, stumbling and misstep, thus having in view the idea of avoiding accidents resulting from falls and the like. The nosing A is bent longitudinally thereof at approximately 90°, as shown more particularly in Fig. 2, so that the nosing A may fit properly over substantially the entire length of the stair tread nosing. This fixed bend in the nosing A is provided to assure ease of attachment, durability, and safety. By providing a bend of approximately 90°, damage to the nosing by repeated flexing is materially lessened.

The numeral 1 represents the stair carpet, and 2, the riser carpet.

Beneath the stair carpet is a pad 3 of any approved material and thickness to make the tread soft to the foot and to deaden sound.

Both pieces of carpet 1 and 2 are brought close to and abut the edges of the nosing A, and are intended to have their outer nap surfaces flush with the latter.

A canvas backing 4, preferably in a single piece, lines the two pieces of carpet, and is vulcanized, preferably, to the under side of the nosing A and padding 3, and the edges of the step and riser carpets 1 and 2 are stitched to this canvas lining, and may also be cemented thereto to make a secure fastening and prevent them from coming loose, also they may be held by pins or fastenings 7 to absolutely insure against accidental detachment.

Except for these fastened edges the step and riser carpets, 1 and 2, are intended to be free of the canvas lining 4.

The canvas lining 4 may be rubberized on its lower surface where it rests upon the step and against the riser.

Various means may be employed for fastening the stair carpet in place, as for instance by a row of tacks or nails 6 at the inner angle of the step as shown in Fig. 2, and in addition through a filler-block 8, if required, as shown in Fig. 4.

From the foregoing, it will be seen that each step of the stairway is independently carpeted, and these units are prepared at the factory according to specification to fit the particular flight of stairs to be carpeted.

These units are composed of three main parts, but each part has its special function for its particular place on step, nosing and riser.

It is desirable that the canvas lining should extend slightly beyond the inner edge of the step 1 and the lower edge of the riser 2 in order to underlap the next unit as shown in Figs. 2, 3 and 4, and in nailing through at the inner angle of the steps, these edges are all secured together by the tacks or nails 6 as shown in Figs. 2, 3 and 4.

Obviously, the color of the nosing might be varied according to the circumstances. White is preferable on dark stairways, so that each step may be easily observed, but where the stairway is well lighted as in main lobbies, the nosings might be red, blue, black, green or any color which would more nearly harmonize with the

color scheme of the carpet, thus making the nosing less conspicuous.

It will be understood that the units as constructed will prolong the life of the carpet on stairs more or less indefinitely, thus reducing replacements to a minimum, but when necessary making it possible to remove and replace a damaged unit in a comparatively short space of time.

By the use of the duck lining extending continuously from the inner edge of the step to the lower edge of the riser, it facilitates the stretching and smooth placement of the unit when installed.

I claim:

1. A unit of the class described which includes a nosing bent longitudinally at approximately 90°, step and riser carpets abutting the edges of the nosing, with their exposed surfaces flush with the latter, a canvas lining extending continuously from the inner edge of the step carpet to the lower edge of the riser carpet, and secured to the bottom surface of the nosing, and to the under surfaces of both the step and riser carpets, and padding beneath the step carpet, all of the above elements secured together in a single unit.

2. An article of the character described, including a non-skid nosing bent longitudinally at approximately 90° and adapted to be positioned over the outer edge surface of the step, strips of carpet abutting both edges of the nosing, one for the riser and the other for the step, a canvas lining, lining the foregoing parts and secured to the edges of the riser and step carpet, and a padding between the lining and the step carpet and vulcanized to one of them, said lining also vulcanized to the under surface of the nosing.

3. A unit of the class described including a nosing bent longitudinally at approximately 90°, step and riser carpets abutting the edges of said nosing and having their outer surfaces substantially flush with the outer surface of the nosing, and a lining secured to the under surface of the nosing and extending under the step and riser carpets, the said step carpet extending from at least the inner edge of the step to an edge of the nosing and the riser carpet extending from an edge of the nosing to at least the bottom edge of the riser.

4. A unit of the class described including a nosing having flat sides bent at approximately 90° to one another, step and riser carpets abutting the edges of said flat sides and having their outer surfaces substantially flush with the outer surface of the nosing, and a lining secured to the under surface of the nosing and extending under the step and riser carpets, the said step carpet extending from at least the inner edge of the step to an edge of the nosing, and the riser carpet extending from an edge of the nosing to at least the bottom edge of the riser, said riser carpet and lining not normally contacting the riser except near the bottom edge thereof.

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