June 26, 1928. 1,674,713

G. W. BROOKS

NONSKID METAL COVERING FOR STAIR TREADS, THRESHOLDS, AND THE LIKE

Filed March 21, 1927

FIG. 1

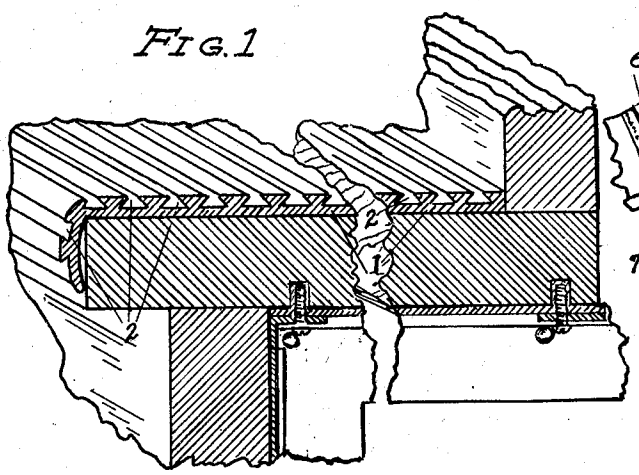


FIG. 3

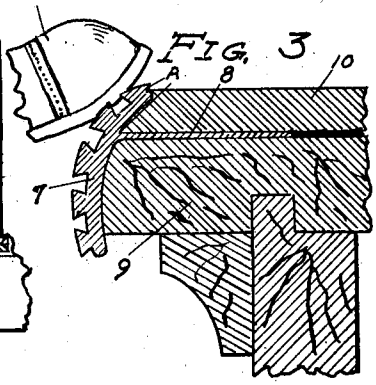
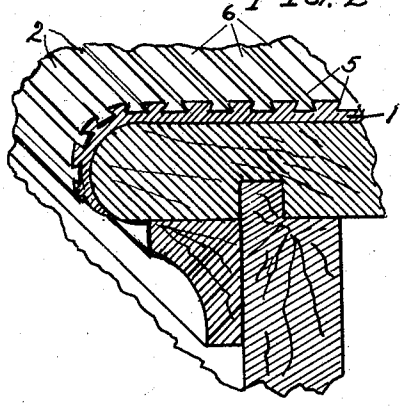


FIG. 2



INVENTOR.

George. W. Brooks.

BY U. G. Charles

ATTORNEY.

Patented June 26, 1928. 1,674,713

UNITED STATES PATENT OFFICE.

GEORGE W. BROOKS, OF TOPEKA, KANSAS.

NONSKID METAL COVERING FOR STAIR TREADS, THRESHOLDS, AND THE LIKE.

Application filed March 21, 1927. Serial No. 177,089.

My invention relates to a non-skid metal covering for stair treads.

The object of my invention is to provide a non-skid metal covering consisting of a plate having a plurality of dove-tailed grooves on the face thereof, the grooves being in close proximity to each other.

A further object of my invention is to provide a non-skid metal covering that is easily bent to conform to the nosing of the tread having the non-skid feature extending therearound.

A still further object of my invention is to provide a nosing for the tread having the dove-tailed grooves on the convex side, and means to attach the nosing to the tread by a member engaging on the face thereof, and means on the nosing to receive the edge of a flexible or rigid facing for the tread.

These and other objects will hereinafter be more fully explained.

Referring to the drawings:

Fig. 1 is a sectional detailed view of the covering applied to a marble stairway.

Fig. 2 is a sectional detailed view showing the covering applied to a wood stairway.

Fig. 3 is a sectional detailed view of the covering applied to the nosing of the tread.

The attaching means for the plate to wood, marble or metal treads may be done various ways, such as using dowels, screws or nails (the said means not being shown in the drawings).

One of the particular features that I wish to emphasize is that the grooves extend longitudinally with the tread, and being so positioned the metal will bend more easily around the nosing as shown in Figs. 1 and 2. However a nosing may be prepared as shown in Fig. 3 hereinafter described. The object of dove-tailing the grooves is that the edges as at 5 are kept sharp by wearing the metal away from the face as at 6, and also being dove-tailed is a means that when the sole of the shoe is pressed thereon it will engage tightly between the edges preventing the possibility of slipping. Where the edges occur on the nosing as shown in Figs. 1, 2 and 3, and particularly illustrated in Fig. 3, the edge will cling firmly to the sole of the shoe, should the pedestrian fail to properly reach the tread, that is to say, the toe of the shoe 6′ barely engages on the nosing, at which time the edge will imbed in the sole of the shoe supporting the foot firmly, therefore the edges being so placed tends to eliminate serious accidents whether going up or down the stairs, and the possibility of slipping from the slanting sides of thresholds is eliminated.

In Fig. 3 is shown a segmental plate 7 having dovetailed grooves on the convex side thereof. Laterally extending from the concave side and integral with the plate is a web member 8 adapted to engage on the tread 9 of the stair. The said web member is spaced from the upper edge as at A of the plate to receive a member 10. This member may be of flexible material as linoleum or the like functioning as a noiseless feature for pedestrians climbing the stairs. The angling position of the upper edge of the segmental plate relative to the plane of the tread is a convenient means to receive the outer edge of the flexible member holding it snugly to engagement on the plane of the web member 8, and also preventing an outward movement thereof.

The covering herein described is preferably made of brass for the better appearance, and also that it will bend easily, and the sharp edges of the dove-tailed members are not easily broken, however aluminum will function in a similar way, other metal may be employed without departing from the spirit of my invention.

Such modifications may be employed to conform to the different uses that the covering may be adapted to.

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

1. In a non-skid metal covering for stair treads, a plurality of dove-tailed or undercut grooves extending part way through a metal sheet, said dove-tailed grooves longitudinally positioned and in close proximity to each other and having a bend on one side of the metal covering to conform to the nosing of a stair tread, whereby the edges of the groove will abruptly protrude, substantially as shown, the edges being kept sharp by the wear imposed thereon.

2. In a non-skid metal covering for stair treads, a plurality of dove-tailed or undercut grooves extending part way through the metal covering, said dove-tailed grooves longitudinally positioned and in close proximity to each other, and being so positioned that the edges formed by the undercut will be

sharpened by wearing of the metal between the edges at the outer surface, for the purpose described.

3. In a non-skid metal covering for stair treads, a plurality of dovetailed or undercut grooves extending part way through the metal covering, said dove-tailed grooves being longitudinally positioned with the covering and in close proximity to each other, the edges automatically sharpened as the metal is worn away between the grooves, a curved portion of the structure of sufficient width to function as a covering for the curvature of a stair tread nosing.

4. In a non-skid metal covering for stair treads, a plurality of dovetailed or undercut grooves extending part way through the metal covering, said dovetailed grooves longitudinally positioned with the covering and in close proximity to each other, the grooves being unfilled so that the outer edges formed thereby will function as a gripping means for the sole of a shoe or other structure compressed thereon, the edges being sharpened by reason of the undercut of the groove formation and the wearing of the metal from the space between the grooves.

In testimony whereof I affix my signature.

GEORGE W. BROOKS.