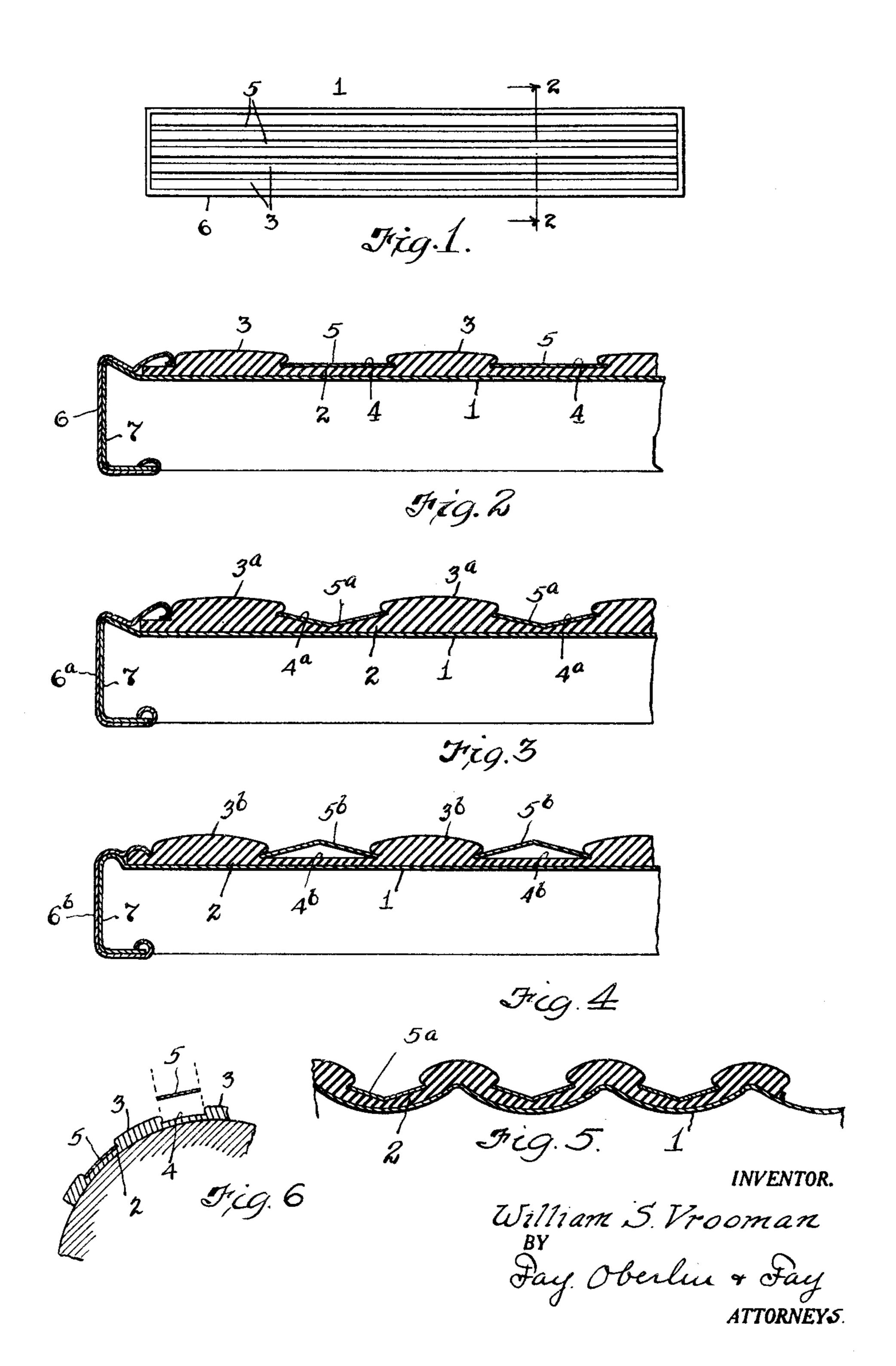
MAT FOR AUTOMOBILE RUNNING BOARDS AND THE LIKE

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WILLIAM S. VROOMAN, OF CLEVELAND, OHIO, ASSIGNOR TO THE PAINE AND WILLIAMS COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO

MAT FOR AUTOMOBILE RUNNING BOARDS AND THE LIKE

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as have been for some years past utilized on corresponding modification of the mat; and employed covering for such running boards grammatic in character, illustrating one has consisted of a sheet of vulcanized rubber step in the preferred method of making such 55 provided with a corrugated surface, such mat. sheet of rubber being secured to the running The running board 1, as shown in Figs. 2, 3 board by means of an interposed layer of ce- and 4 of the drawing, consists of a flat metal menting material or by vulcanizing the rub- sheet of the desired dimensions, but may, if has also been usual to secure the edges of the any other material suitable for use as a step rubber mat to the board by means of a nosing or tread surface. Also, as shown in Fig. 5, in the form of metal strips bent to overlie the running board 1 may be corrugated longisuch edges. In contradistinction to the fore-tudinally. going, the present improved construction of The mat consists of a sheet 2 of vulcanized 65 mat has as its object to provide a covering rubber, or rubber-like material, molded to for automobile running boards, steps and present a flat or corrugated surface designed like tread surfaces which will present alter- to contact with the board 1, or equivalent nate ribs of rubber with strips in the depres-support, and having a ribbed upper surface. sions therebetween of a material different. The cross-sectional conformation of the ribs. 70 from that of the mat and preferably of a as well as of the depressions or channels harder and more rigid nature, such as metal, therebetween may vary. Thus, as shown in bakelite or the like. As a result an effect is Fig. 2, the ribs 3 are substantially flat and the secured similar to that where ribs of rubber bottoms of the channels 4 are likewise flat. are inset in or vulcanized to a solid metal base. In Fig. 3, on the other hand, the ribs 3a are 75 plate with the advantage, however, of a much of slightly convex form and the channels 4a lighter construction as well as one that is are of angular concave form. In Fig. 4, ribs much less expensive to manufacture and at 3b of still greater convexity are illustrated, the same time superior in wearing and other while the channels 4b are flat as in Fig. 2. qualities.

and related ends, the invention, then, consists of the ribs adjacent the channels are slightly 35 particularly pointed out in the claims, the annexed drawing and the following description preferably made of thin gauge stainless steel 85 setting forth in detail certain mechanism em- or of nickel or chromium plated steel and, bodying the invention, such disclosed means like the ribs, may be of different cross-secconstituting, however, but one of various metional forms. Thus, the strips 5 in Fig. 2 chanical forms in which the principle of the are flat so as to lie in direct contact with the invention may be used.

ing; Fig. 2 is a broken transverse section of nels 4a; on the other hand, in Fig. 4, the such running board taken on the line 2—2 of strips, while of angular conformation, are 95 Fig. 1 and showing the mat applied thereto; disposed to present their convex faces up-Figs. 3 and 4 are sectional views, similar to wardly and engage with the rubber layer tion of the mat; Fig. 5 is a sectional view, edges which fit into the undercut edges of similar to Fig. 2, but showing a modified contact the ribs 3b.

Aside from all metal running boards, such struction of the running board involving a lower priced automobiles, a very extensively Fig. 6 is a sectional view, more or less dia-

ber sheet directly to the running board. It desired, be an actual board or composed of 60

However, in each of the several forms thus 80 To the accomplishment of the foregoing illustrated, it will be noted that the edges of the means hereinafter fully described and undercut to receive the edges of metal strips 5, 5a and 5b, respectively. These strips are bottoms of the corresponding channels 4. 90 In said annexed drawing:— Similarly, the strips 5a in Figs. 3 and 5 are Fig. 1 is a plan view of a running board of angular conformation so as to lie in close provided with my improved mat or cover- fitting contact with the bottoms of the chan-Fig. 2, but showing modifications in constructions constituting the mat proper only along their

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metallic material, such as bakelite, for ex- ject greatly to be desired in the case of autoample, and may be painted, lacquered or mobile running boards which as at present otherwise colored to correspond or contrast constructed detract rather than add to the with the color of the body of the automo- appearance of an automobile. bile. Since the upper surface of the strips is in each case below the upper surface of the ribs of the mat, the strips are not trod upon and are subjected to very little wear.

The outer edge of the mat is in each case secured to the running board 1 by means of a metal strip 6, 6a and 6b, of channel formation, the lower portion of such channel strip engaging with a depending flange 7 on distinctly claim as my invention:— 15 the running board, while the upper portion 1. In a covering for automobile running 80 overlies and, if desired, has interlocking en- boards and like tread surfaces, the combinagagement with the corresponding edge of the tion of a thin flexible molded rubber mat

mat.

20 struction of mat, the rubber layer 2 with its strips of a material different from that of 85 series of ribs and channels will be molded the mat secured in the channels between the and vulcanized in the usual way and the met-ribs on such face solely by said ribs. al strips then subsequently inserted in such 2. In a covering for automobile running channels. This operation may be conveni- boards and like tread surfaces, the combina-25 ently performed in the manner illustrated in tion of a thin flexible molded rubber mat 90 Fig. 6, namely, by supporting the mat on a adapted to be applied to such surface, said cylindrical surface with the ribs extending mat having its wearing face formed with longitudinally of the axis of such surface, laterally undercut ribs, and strips of a mawhich latter is of the proper curvature to terial different from that of the mat fitted 30 open up the channels so that the strips may in the channels between such undercut ribs. 95 be readily inserted between the undercut 3. In a covering for automobile running edges of the ribs. When the rubber sheet is boards and like tread surfaces, the combi-35 between the ribs, as will be readily under- mat having a ribbed wearing face, and 100 strips may be slid endwise into the channels and will be held in place by the nosing at 40 the ends of the running board.

A mat constructed in the manner disclosed provides for a maximum amount of wear with a minimum amount of rubber in that the thickness of the layer in the bottoms of 45 the channels may be greatly reduced and the ribs, if desired, be made of greater thickness than that of the corrugations in an all rubber mat. The corrugations in the running board shown in Fig. 5 not only strengthen 50 the board longitudinally but permit the use of a mat containing less rubber than the mats shown in the other modified forms of the invention. The strips impart a desired element of rigidity to the mat so as to cause it 55 to lie flat on the running board and retain its shape even where no cementing material is used to secure the mat to the running board. In other words, the use of an interposed layer of cement with my present im-60 proved mat is optional. In addition, such strips, particularly where made of polished stainless steel or plated steel, or when painted or othewise colored to correspond or contrast with the color of the body of the auto-65 mobile, provide a very effective embellish-

The strips may also be made of a non- ment to the mat as a whole which is an ob-

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the mechanism herein disclosed, provided the means stated by any of the follow- 75 ing claims or the equivalent of such stated means be employed.

I therefore particularly point out and

adapted to be applied to such surface, said In the manufacture of my improved con- mat having a ribbed wearing face, and

thereupon restored to its normal flat condi- nation of a thin flexible molded rubber mat tion, the strips will be securely interlocked adapted to be applied to such surface, said stood. On the other hand, where the mat is strips of angular cross-section and of a mavulcanized directly to the running board, the terial different from that of the mat secured in the channels between the ribs on such face.

4. In a covering for automobile running boards and like tread surfaces, the combi- 105 nation of a thin flexible molded rubber mat adapted to be applied to such surface, said mat having its wearing face formed with laterally undercut ribs, and strips of angular cross-section and of a material different 110 from that of the mat fitted in the channels between such undercut ribs.

5. In a covering for automobile running boards and like tread surfaces, the combination of a thin mat of flexible material 115 adapted to be applied to such surfaces, said mat having a ribbed wearing face and strips of a material different from that of the mat secured in the channels between the ribs on such face solely by said ribs.

6. In a method of making a covering of the character described, the steps which consist in molding a thin flexible rubber mat with ribs on its wearing face, flexing such mat transversely of such ribs, inserting 125 strips of a material different from that of the mat in the channels between such ribs, and thereupon flattening out such mat whereby said strips are secured in place.

7. In a method of making a covering of ¹³⁰

the character described, the steps which consist in molding a thin flexible rubber mat with laterally undercut ribs on its wearing face, flexing such mat transversely of such ribs, inserting strips of a material different from that of the mat in the channels between such ribs, and thereupon flattening out such mat whereby said strips are secured in place.

in place.

Signed by me, this 10th day of November,

WILLIAM S. VROOMAN.