

R. P. PERRY.
FLOOR COVERING.
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1,409,768.

Patented Mar. 14, 1922.

Fig. 2

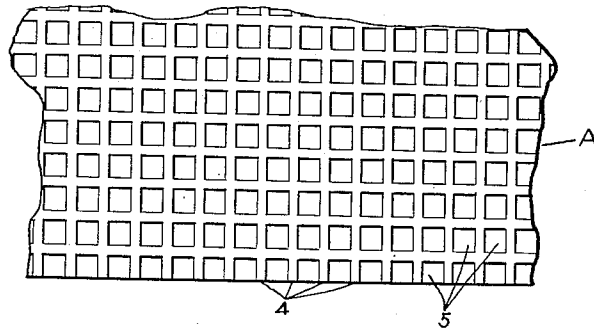


Fig. 1

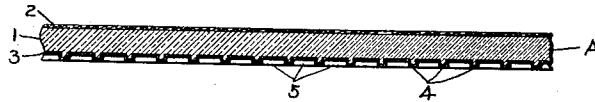
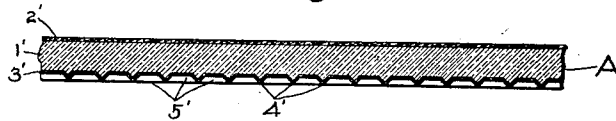


Fig. 3



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FLOOR COVERING.

1,409,768.

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To all whom it may concern:

Be it known that I, RAY P. PERRY, a citizen of the United States, residing at 22 Parkside, Upper Montclair, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Floor Coverings, of which the following is a specification.

This invention relates to floor coverings such as the class of floor coverings designated under the trade name "congo-leum," etc. Such floor coverings generally consist of a layer of bituminous material one side of which is covered with a printed design to simulate the appearance of printed, inlaid or other linoleum, and the other side of which is generally covered with a one-tone pigment.

It has been found a disadvantage in connection with this class of floor coverings, especially when such coverings are used in small form to cover merely a portion of the floor, and are not fastened in any way to such floor, that the floor covering slips about and does not remain in position. Such coverings, moreover, are not generally good heat insulators, heat insulation being deemed desirable in order to store the heat values within the compartment on the floor of which the covering is placed.

The floor covering of my invention possesses the desirable properties of affording superior heat insulation and of being so constructed that the covering has a better grip or purchase on the floor than the coverings previously in use. Furthermore, by my construction, the floor covering has a "springy" or "carpety" feel under the feet, and has other desirable properties subsequently to be enumerated.

Referring to the drawing wherein I have illustrated one embodiment of my invention, Fig. 1 shows in cross-section the floor covering of my invention, and

Fig. 2 shows in elevation the bottom surface of the floor covering.

Fig. 3 shows in cross-section a modification of my invention.

1 indicates the main body portion of the floor covering consisting, for example, of a sheet of bituminous material A, the upper surface 2 of which is covered with pigment in imitation of printed or inlaid linoleum, or other floor covering. The under surface

of the floor covering is covered by a layer 3 of pigment, or similar material, and is provided with the intersecting ribs 4 defining the depressions 5. I prefer to so arrange the relative areas of the ribs and depressions that the ribs cover only a small fraction, generally less than one-third, of the upper surface of the floor covering while the depressions cover a relatively large area of said surface. However, the relative proportions of the areas covered by the ribs and the depressions may be varied considerably while still retaining the principal advantages of my construction. While the ribs are shown in two series at right angles to each other, equally spaced and parallelly arranged, the ribs may be otherwise arranged and still preserve the advantages of my invention.

In order to realize the best results, the ribs should be spaced a small fraction of an inch apart, generally less than one quarter of an inch. While various types of cross-sectional character may be used with advantage, I prefer to use either the rectangular ribs shown in Figs. 1 and 2, or a triangular rib as shown in Fig. 3. As illustrated in this figure of the drawing, the body portion 1' of the sheet A' has the upper surface thereof covered with pigment 2', while the lower surface is covered by a layer 3' of pigment or similar material, and is provided with the intersecting ribs 4' defining the depressions 5'.

As a result of this construction, when the floor covering is applied to the floor or other surface whereon the same is to be used, there is provided between the floor and the under surface of the covering a plurality of air-cells 5 serving to increase the heat insulating value of the floor covering. Furthermore the ribs 4, being of rather small dimension, are comparatively compressible and serve, therefore, to impart to the floor covering a certain "springy" or "carpety" feeling when trod upon. The ribs also serve the added function of gripping the floor better than a cover with the under side smooth would do. As further advantages following from this type of construction, I have found from personal experience that such a floor covering has great flexibility and elasticity, and does not crack or break as easily when provided with such ribs as when it is with-

out them. Furthermore, when the floor covering is stored in rolls, the depressions in the same serve to retain sufficient air to cause the necessary oxidation of the oils in the covering to take place with desirable rapidity. I have found also that the ribs make the covering non-creaking when walked upon.

What I claim is:

1. A flexible floor covering comprising a sheet of felt saturated with a waterproofing composition and having a plurality of well-defined intersecting ribs on the under side thereof and integral therewith.

2. A flexible composition floor covering comprising a sheet of bituminous material, a coating of pigment in the form of a design on one side of the said sheet, and a plurality

of well-defined ribs on the other side of the said sheet.

3. A flexible composition floor covering comprising a sheet of bituminous material, a covering of pigment in the form of a design on one side of the said sheet, and a plurality of well-defined intersecting ribs on the other side of the said sheet.

4. A flexible floor covering comprising a sheet of bituminous material, a covering of pigment in the form of a design on one side of the said sheet, and a plurality of well-defined, intersecting ribs on the other side of the said sheet and integral with the same.

In testimony whereof I affix my signature.

RAY P. PERRY.