Dec. 3, 1929. W. B. JASPERT 1,737,589

COMPOSITE FLOOR

Filed Feb. 7, 1928

Fig. 1.

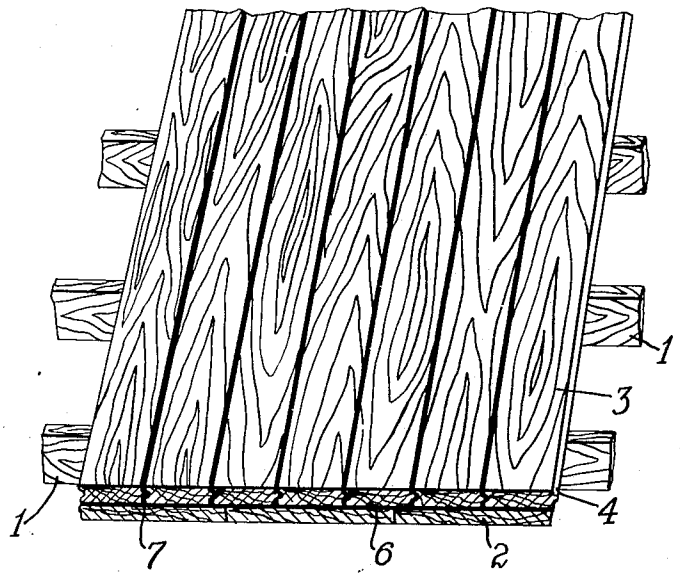


Fig. 2.

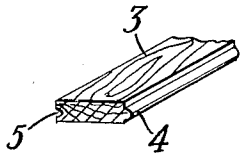
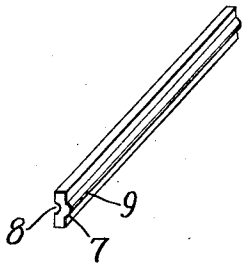


Fig. 3.



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COMPOSITE FLOOR

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This invention relates to flooring material, more particularly to a composite floor and it is among the objects of the invention to provide an improved floor for dwellings which shall be insulated at the joints of the flooring strips and in which the wearing material will be entirely supported in rubber or other suitable flexible material to reduce the sound resulting from impact therewith.

Another object of the invention is the provision of flexible liners between strips of wearing material which are provided with means for effecting a mechanical interlock with adjacent wearing members.

In the accompanying drawing constituting a part hereof and in which like reference characters designate like parts, Fig. 1 is a view in perspective of a section of composite flooring embodying the principles of this invention; Fig. 2 is a similar view of a strip of flooring material such as wood; and Fig. 3 is a similar view of a molded rubber strip employed in the manner hereinafter stated.

Referring to Fig. 1 of the drawing, the structure therein illustrated comprises a foundation member consisting of joists 1 having boards 2 secured thereto and a wearing surface comprising boards 3 having tongues 4 and grooves 5 for the purpose of interlocking them in cooperative engagement with adjacent flooring members.

In accordance with the present invention I provide a sheeting 6 of rubber or other suitable resilient material which is laid on the sub-floor constituted by the boards 2 upon which the floor boards 3 are laid. The sheeting material may be either secured to the subfloor or loosely laid, as preferred, and the boards 3 may be nailed in any suitable manner.

I provide a strip of resilient material such as rubber in the form of the strip 7, Fig. 3, which is molded to the shape shown with grooves 8 and a convex or tongue-like member 9, the grooves 8 and tongues 9 corresponding in contour and dimensions to the grooves 5 and tongues 4 of the floor boards 3. The strips 7 are laid between adjacent boards 3 as shown in Fig. 1 and they should be either secured by driving a nail therethrough into the board 3 or the board 3 should be nailed in the usual manner by driving a nail adjacent the tongue member 4, and the strips 7 may be loosely interposed between adjacent boards 3 and held in position by virtue of their tongue and groove engagement with the tongues and grooves of the boards 3.

In place of the molded rubber strip 7, a straight strip of rubber may be employed but on account of the relatively low cost of manufacturing the molded strip it is preferred to employ strips having the tongues and grooves formed therein as illustrated for the purpose of eliminating displacement of the strips by creepage after they are assembled in position.

Although the preferred form of my invention is illustrated in Fig. 1, in which both the rubber sheeting 6 and strip 7 are employed to reduce the sound of impact on the floor, it will be obvious that the strip 7 may be advantageously employed without the sheeting 6 where it is desired to provide for heat insulation in the crevices of adjacent floor boards.

It is evident from the foregoing description of this invention that composite floors made in accordance therewith are of simple construction and relatively inexpensive to make, requiring no additional labor in laying and it is further evident that such floors may be advantageously utilized in private dwellings or in public buildings such as school rooms, hospitals, and the like, where it is desired to eliminate the sound of impact produced by walking on the floor members.

Although one embodiment of the invention has been herein illustrated and described, it will be obvious to those skilled in the art that various modifications may be made in details of construction, for example, in the substitution of other materials for those specified and in the shape and form of the liners and flooring strips without departing from the principles herein set forth.

I claim:

1. A wearing surface for floors, comprising in combination strips of flooring material laid upon a foundation member and strips of molded rubber disposed therebetween, said strips being provided with tongues and grooves forming interlocks.

2. A wearing surface for floors comprising in combination, strips of flooring material having tongues and grooves and strips of molded rubber having tongues and grooves for interlocking with the grooves and tongues of said first named strips, said strips being interlocked to constitute a composite floor structure.

3. A wearing surface for floors comprising in combination strips of flooring material laid upon a foundation member and having tongues and grooves adapted to form interlocks and preformed strips of resilient material disposed between and adapted for interlocking with the grooves and tongues of the said first named strips.

In testimony whereof, I have hereunto set my hand.

WILLIAM B. JASPERT.