April 26, 1927. 1,625,863

G. McLARTY

APPARATUS FOR APPLYING NONSLIPPING MATERIAL TO FLOOR COVERINGS

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Fig. 1

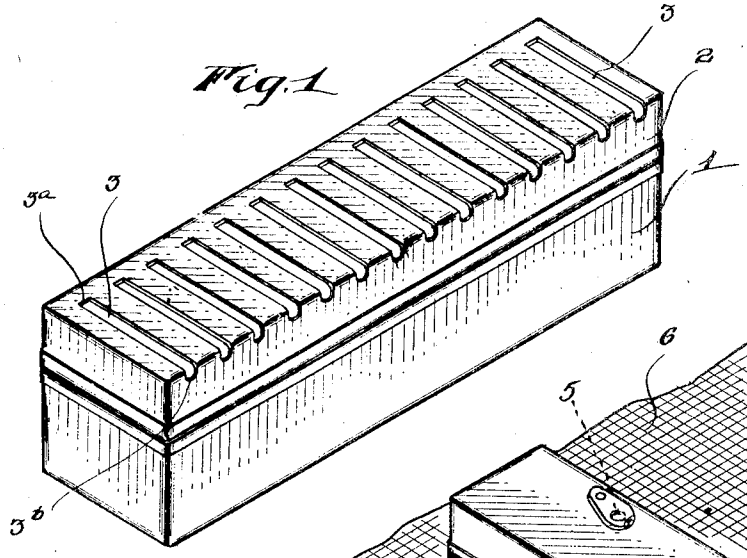


Fig. 2

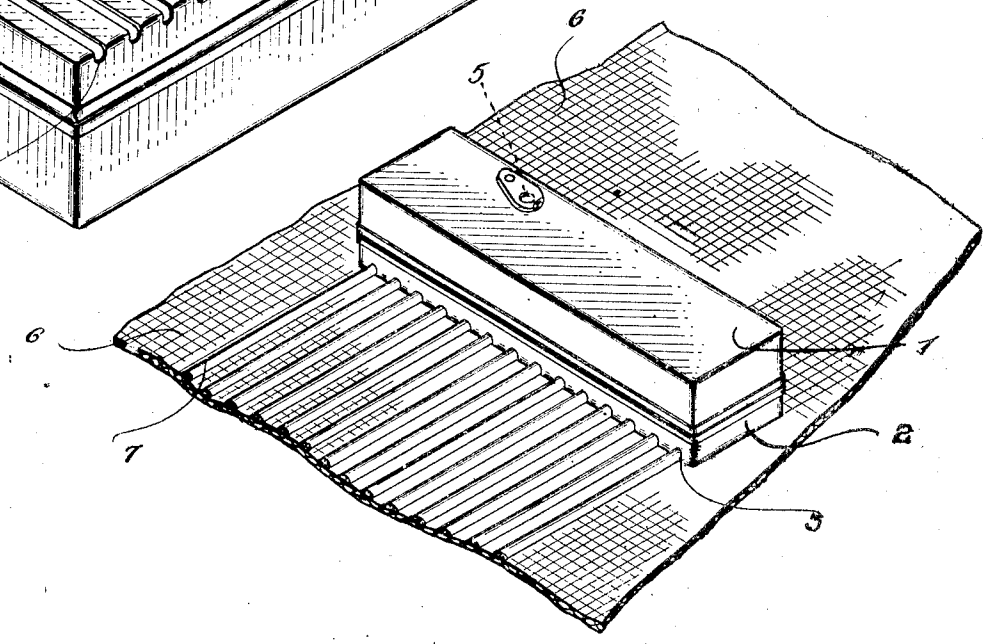
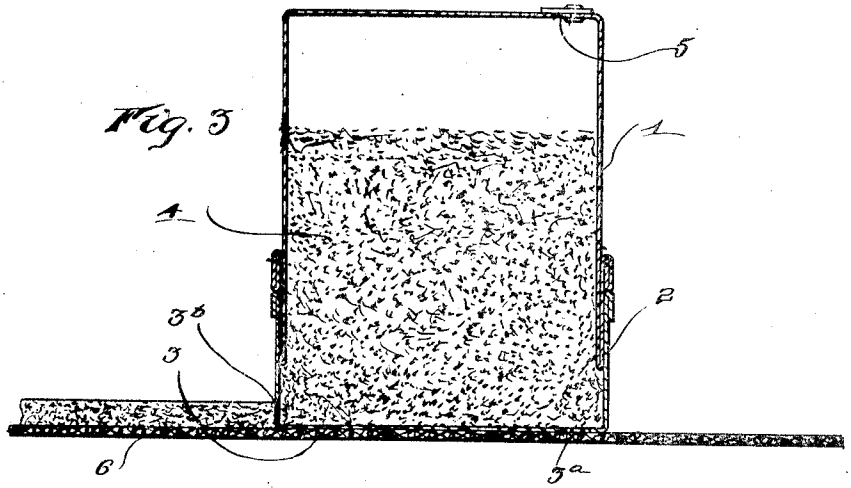


Fig. 3



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APPARATUS FOR APPLYING NONSLIPPING MATERIAL TO FLOOR COVERINGS.

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The present invention relates to an apparatus for applying a non-slipping material to floor coverings. An object of the invention is to make it possible to apply a non-slipping element to a floor covering in such a manner that the nonslipping element is effectively attached to the covering without the use of a large amount of volatile solvent. A further object of the invention is to provide an apparatus which will utilize a non-slipping element in a viscous rather than in a freely flowing liquid condition. A still further object of the invention is to provide an apparatus which will lay a viscous non-slipping element in strips upon the back of the floor covering with a pressure that will cause the viscous material to penetrate the floor covering.

To these and other ends, the invention consists of certain parts and combinations of parts, all of which will be hereinafter decribed: the novel features being pointed out in the appended claims.

In the drawings:

Fig. 1 is a perspective view of the apparatus for applying the non-slipping element;

Fig. 2 is a perspective view showing the apparatus in one position as it is being moved over the rear face of a floor covering to apply the non-slipping element thereto in strips; and

Fig. 3 is a transverse section through the apparatus and floor covering.

Prior to this invention, it has been suggested to apply rubber in a liquid state to the rear face of a floor covering to prevent the slipping of the covering on floors. This rubber has been applied in a freely flowing condition, necessitating the use of a large amount of solvent, and at the same time preventing the formation of definitely defined areas of the non-slipping element on the floor covering. According to this invention, the non-slipping element, rubber composition or other material, is applied to the floor covering in a viscous condition under pressure and in defined areas.

An apparatus for carrying out this invention may consist of a distributing member in the form of a box or receptacle 1 with a cover or top 2, having a slip-fit connection, in this instance, with the body. This cover acts as a distributing head and is provided with a plurality of elongated slots or openings 3, arranged in parallel relation and having one end 3^a of each slot in spaced relation to the adjacent corner of the flanged cover, while the other end 3^b extends throughout the top surface and onto the flange of the cover, this flange serving as a vertical wall for the distributing head. The non-slipping element 4 in viscous form is arranged in the receptacle or container 1 and the latter may have in its bottom wall a vent or opening 5 through which air at atmospheric pressure or under pressure above that of the atmosphere may enter the distributing member when the latter is inverted on the floor covering.

In the use of the invention, the carpet or floor covering 6 is turned upside down on a suitable support and the distributor, substantially filled, is inverted so as to present the discharge openings 3^b formed in the wall of the distributor to the floor covering with the wall containing the slots 3 flat against the floor covering. The distributor is then moved over the floor covering in this position and the viscous material issues from the discharge openings 3^b in strips 7, as shown in Fig. 2, the openings 3^b defining the cross sections of the strip. Owing to the fact that a body of viscous material is in the distributing head it exerts its pressure on the material passing through the slots 3, and the viscous material is forced into the interstices of the floor covering under pressure. As the head moves the material issues from the discharge orifices 3^b in strips which take a cross sectional form of the discharge orifices. Owing to the fact that the material is in a viscous condition it quickly dries. Furthermore, it does not require much solvent and it is possible to mold a strip in a defined area on the floor covering. As it is placed on the covering under pressure, the material firmly unites with the covering so that peeling off is eliminated.

Applicant has provided a receptacle, the general nature of which is closed except for the provision of the discharge openings in the bottom and side wall. This permits the receptacle to be moved over the floor covering and when the end of the floor covering is reached to be inverted so as to maintain the contents in the receptacle. When operating the receptacle is vented so that the pressure of the atmosphere is admitted to the upper

surface of the material in order that sufficient pressure for discharging the material may be obtained.

What I claim as my invention and desire to secure by Letters Patent is:

1. A distributing member comprising a container having a plurality of openings in the bottom wall thereof, said openings being extended to a side wall of the container to provide discharge openings in such side wall so that the material in the container will be forced through the openings in the bottom into the interstices of the floor covering under pressure and will pass from the discharge openings in the side wall as the container is moved over the floor covering, said container being a substantially closed structure so that the container with its contents may be removed from the floor covering and inverted to prevent the contents flowing through the openings in the bottom and the side wall and means for venting the container at its top.

2. A distributing member comprising a box like structure for containing the non-slipping element, said structure having an air intake opening and having a plurality of elongated slots, the structure being formed with discharge openings at one end of each slot, so that the material in the structure will be forced through the slots into the interstices of the floor covering under pressure of the contents of the receptacle, and will be shaped by the discharge opening as the receptacle is moved over the floor covering.

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