March 27, 1934. L. ROSTOKER 1,952,222

DOOR MAT

Filed Dec. 1, 1932

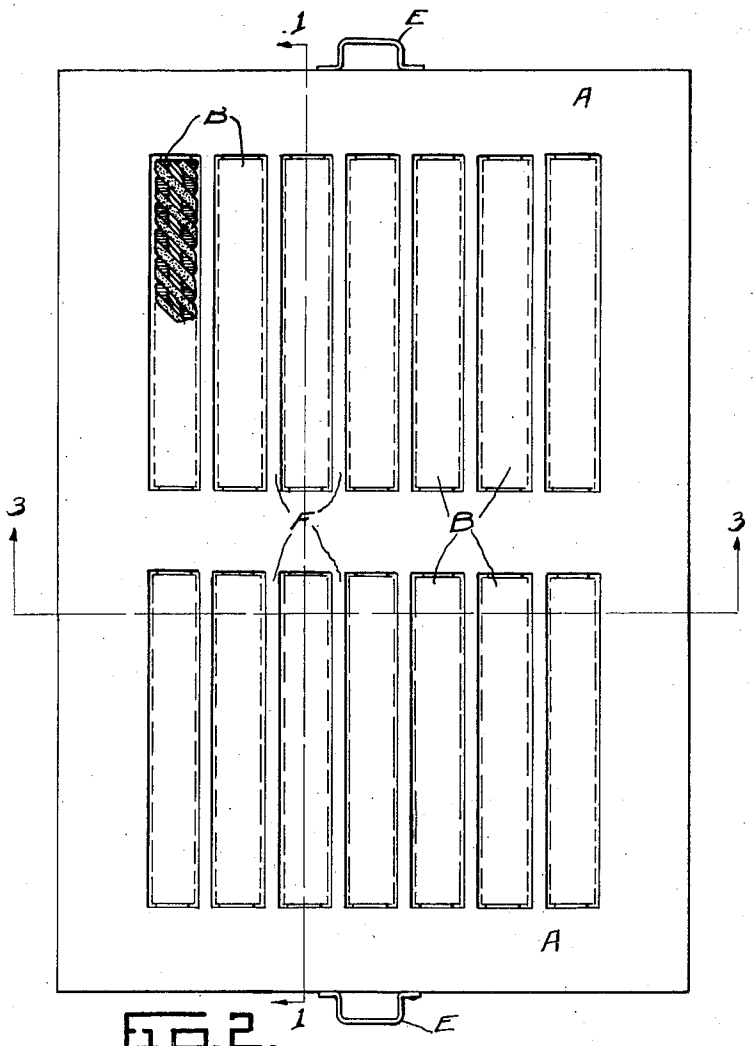


Fig. 2.

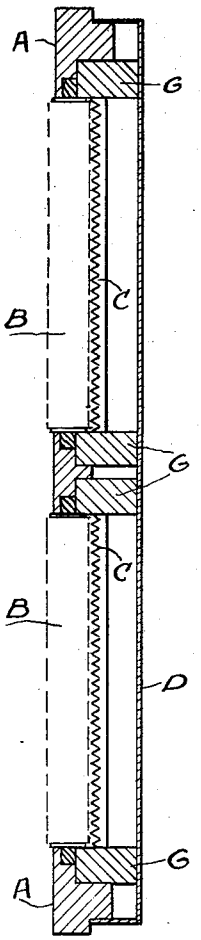


Fig. 1.

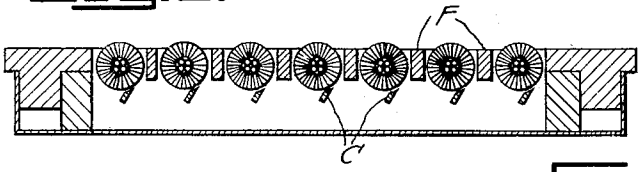


Fig. 3.

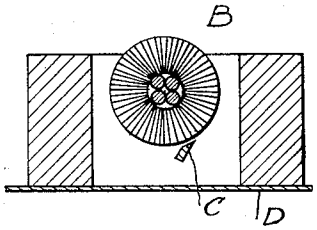


Fig. 4.

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UNITED STATES PATENT OFFICE

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DOOR MAT

Louis Rostoker, Toronto, Ontario, Canada

Application December 1, 1932, Serial No. 645,139

2 Claims. (Cl. 15—36)

My invention relates to improvements in door mats in which the cleaning brushes revolve against a cleaning rod; and the objects of my improvements are, first, to provide a door mat that always presents a clean wiping surface on top; second, affords a method of catching and removing the dirt without leaving it on the door mat.

I attain these objects by the mechanism illustrated in the accompanying drawing, in which—

Figure 1 is a right section taken at section 1—1 shown on the plan; Figure 2 is a plan of the door mat; Figure 3 is a right section taken at section 3—3 shown on the plan; Figure 4 is a right section in detail of one of the brushes.

Similar letters refer to similar parts throughout the several views.

The door mat consists of a wood or metal frame A in which roller brushes B, composed of a wire core and heavy stiff bristles which project slightly above the frame A and are held in position by bearings in the frame, revolve with the act of brushing shoes on them over metal bars C which have serrated or toothed edges. The frame and brushes are made to fit into a metal receiving pan intended to catch the dirt which falls from metal bars C as the roller brushes B revolve and is easily removed from the metal pan by rings E, one in each end of the frame, to enable the contents of the pan to be emptied.

The wire core of the brushes B is sufficiently flexible to enable the weight of the person using the door mat to keep the bottom edges of the brushes pressed against the cleaning bars B. The brushes B are separated by partitions F which strengthen the frame and prevent the dirt from coming up from the receiving pan between the brushes.

The frame A is strengthened by the cross members G into which the cleaning bars C are set.

The door mat is made a unit capable of being combined with any number of other units to form a cleaning surface of any desired size.

I am aware that prior to my invention stiff bristled brushes have been used for the purposes of door mats. I, therefore, do not claim the use of such a brush for the purpose broadly; but what I claim as my invention and desire to secure by Letters Patent, is—

1. A door mat comprising a plurality of cylindrical brushes rotatably mounted adjacent each other in a horizontal plane, the brushes being depressible under the weight of a person using the mat; and scraper members below the brushes engageable by the brushes to clean the same when the brushes are depressed and rotated by the user.

2. In a door mat, the combination of a slotted frame; a plurality of cylindrical longitudinally resilient brushes mounted adjacent each other in a horizontal plane projecting through the slots and having their ends journaled in the frame; and scraper members below the brushes engageable by the brushes to clean the same when the brushes are depressed and rotated by the user.

LOUIS ROSTOKER.