Jan. 19, 1943. J. J. CONNOR 2,308,587

DOOR MAT

Filed Oct. 17, 1941

Fig. 1.

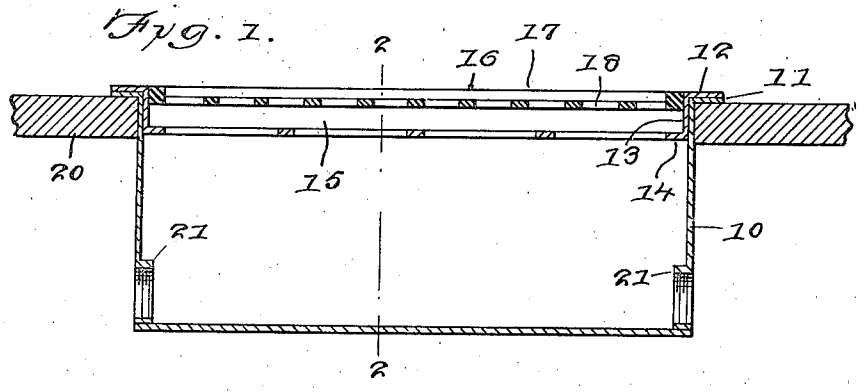


Fig. 2.

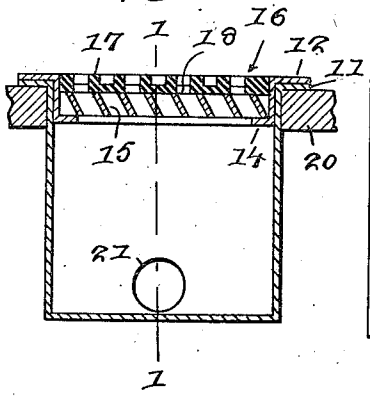
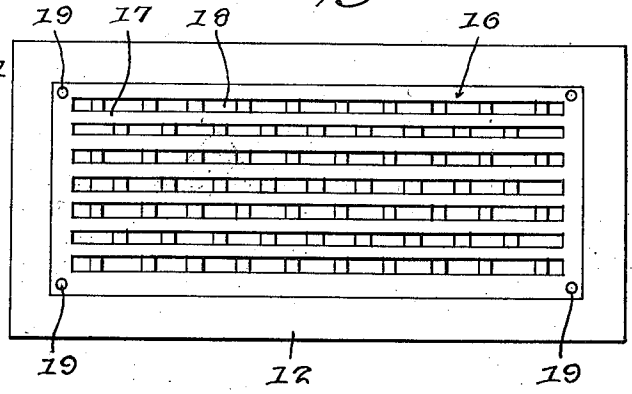


Fig. 3.



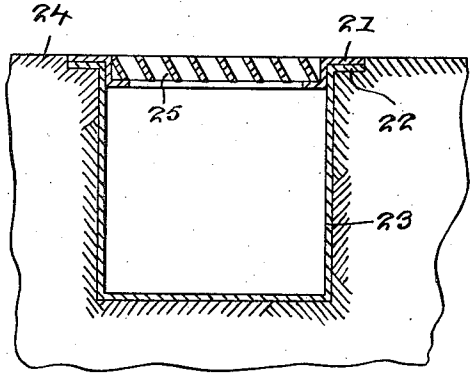


Fig. 4.

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Patented Jan. 19, 1943 2,308,587

UNITED STATES PATENT OFFICE

2,308,587

DOOR MAT

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Application October 17, 1941, Serial No. 415,479

1 Claim. (Cl. 15—237)

This invention relates to a door mat and has for an object to provide a door mat suitable for use in connection with buildings, motor vehicles and other places and adapted to prevent sand and mud from being carried into a room or other enclosure.

A further object is to provide a device of this character in which the scraper will be flush with the top of the device and will be so constructed that the shoes cannot catch in the same to trip a person, while at the same time the sand and mud removed from the shoes will be trapped in a receptacle from which the material may be easily removed when desired.

A further object is to provide apparatus of this character which will be formed of a few strong, simple and durable parts, which will be inexpensive to manufacture, and which will not easily get out of order.

With the above and other objects in view the invention consists of certain novel details of construction and combinations of parts hereinafter fully described and claimed, it being understood that various modifications may be resorted to within the scope of the appended claim without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawing forming a part of this specification:

Figure 1 is a longitudinal sectional view of a door mat constructed in accordance with the invention taken on the line 1—1 of Figure 2.

Figure 2 is a cross sectional view of the door mat taken on the line 2—2 of Figure 1.

Figure 3 is a top plan view of the door mat.

Figure 4 is a cross sectional view of the door mat with the ribbed rubber mat dispensed with to adapt the device for exposed localities.

Referring now to the drawing in which like characters of reference designate similar parts in the various views, 10 designates a container which is open at the top and is formed with an outwardly extending flange 11 at the upper edge. A removable frame is supported upon the flange 11 and is of the same shape as the container. The frame comprises an upper outwardly extending flange 12, a vertical flange 13, and an inwardly extending flange 14. The frame is adapted to be disposed with the vertical flange 13 abutting the wall of the container and with the inwardly extending flange 14 disposed at a point below the top of the container.

A plurality of vertically or angularly disposed bars 15 are mounted in spaced relation upon the inwardly extending flange 14 of the frame and the bars are rigidly secured in any preferred manner at the ends to the inwardly extending flange 14 and to the vertical flange 13 of the frame. The frame and bars may be removed from the top of the container as an integral unit to afford access to the contents of the container.

A rubber mat 16 is superposed upon the bars so as to lie flush with the outwardly extending flange 12 of the frame. The rubber mat is provided with longitudinal ribs 17 and between the ribs the mat is provided with staggered elongated perforations 18.

The outwardly extending flange 12 of the frame and the outwardly extending flange 11 of the container are provided at the corners with openings 19 through which screws or other fastening devices may be engaged to secure the door mat to a step 20 or other article.

The container 10 is provided with flanged openings 21 at one or both ends to admit a hose for flushing sand and mud from the container.

In Figure 4 is shown a modified form of the invention suitable for exposed locations. This form of the invention is the same as the form of the invention previously described with the exception that the rubber mat is dispensed with and the outwardly extending flange 21 of the frame is supported upon the outwardly extending flange 22 of the container 23, flush with the top of the ground 24. The spaced bars 25 are flush with the outwardly extending flange 21 of the frame, and in this instance the bars themselves form the scraper medium instead of the ribbed perforated rubber mat 16.

From the above description it is thought that the construction and operation of the invention will be fully understood without further explanation.

What is claimed is:

A door mat comprising a container open at the top and formed with an outwardly extending flange at its upper edge, a frame setting in the open top of the container having an outwardly extending flange at the upper edge removably supported upon said container flange and having an inwardly extending flange at a point below the upper edge of the container, a plurality of parallel scraper bars disposed oblique to the vertical axis of the container and secured at the ends to the inwardly extending flange and to the frame to permit the bars and frame being removed as a unit from the container, said bars having their upper edges disposed below the top of the frame, and a perforated ribbed rubber mat superposed upon the bars within the frame having the top surface extending flush with the top of the frame.

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