

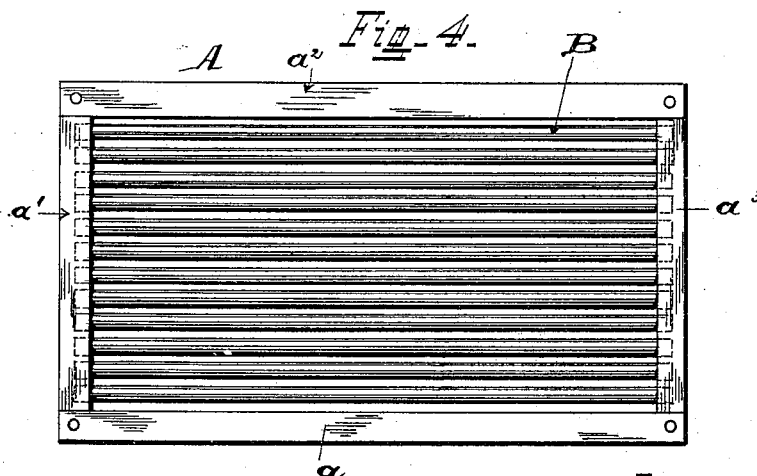
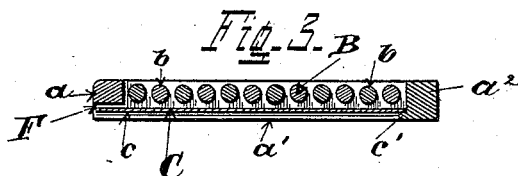
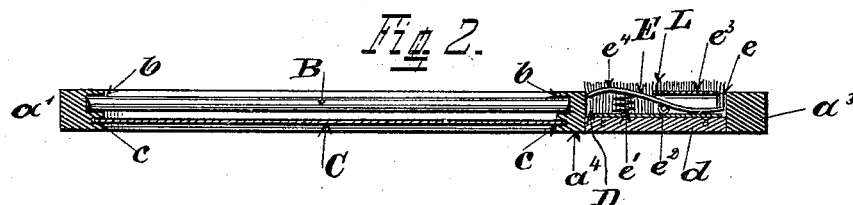
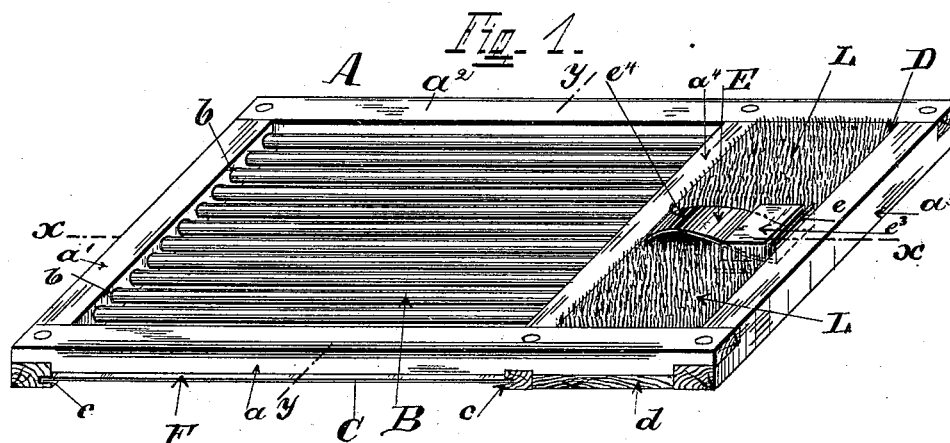
(No Model.)

S. M. FEIN.

DOOR MAT.

No. 345,291.

Patented July 13, 1886.



Attest
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DOOR-MAT.

SPECIFICATION forming part of Letters Patent No. 345,291, dated July 13, 1886.

Application filed March 28, 1885. Serial No. 160,569. (No model.)

To all whom it may concern:

Be it known that I, SOPHIA M. FEIN, of Cincinnati, Hamilton county, State of Ohio, have invented a new and useful Door-Mat, of which the following is a specification.

My invention relates to that class of door-mats which are commonly used in front of in and out side doors for the purpose of wiping and cleaning the foot-wear of entering persons.

The object of my invention is to provide a better mat in general, but more especially to provide a mat which is always clean and dry. I attain these objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my entire mat. Fig. 2 is a longitudinal section of it on the line *x x*. Fig. 3 is a cross-section of it at the line *y y*. Fig. 4 is a top view of a modification of my mat.

Four pieces, *a a' a² a³*, preferably of wood, are suitably connected by mortising, tenoning, screwing, nailing, or by wooden dowels, so as to form a rigid frame, A. A cross-piece, *a⁴*, is put between the pieces *a* and *a²*, and connected to them, as shown in drawings. Pieces *a'* and *a⁴* (in my modified form *a³*) are provided on their inner side with a series of holes, *b*, into which are inserted loosely wooden rods B. Pieces *a' a⁴* are on their inner side and a little below the wooden rods B, provided with a groove *c*, in which rests and slides a plate, C, of tin or sheet-iron. The rear edge of this plate is supported by a lip, *c'*, extending from piece *a²*. The balance of the frame A is closed from below with a board, *d*, which thus forms the bottom of the shallow receptacle D. In the middle of this receptacle is placed a scraper, E, whose scraping-edge *e* rests generally below the level of the frame-work, being held there by a spiral spring, *e'*, placed at the other side of pivot *e²*. (See Fig. 2.) A plate, *e³*, fastened by downward-extending flanges to bottom *d*, fills out the empty space above the depressed scraper.

In using the scraper the person steps or presses with one foot on the scraper, about at *e⁴*, which operation presents the scraping-edge on the other side. The balance of receptacle D on the two sides of the scraper is filled out

with some common kind of mats, L L, of a bushy nature.

This mat presents to the user three ways of cleaning his foot-wear. It is always clean, because the dirt drops through the spaces between the rollers B, which revolve when used. The water of melting snow will not stand on the mat and keep it wet, but runs off through the same spaces. The dirt is caught below the rollers by the sheet C, from whence it is easily removed whenever necessary by raising the mat on its edge, when the dirt falls out through the space left between sheet C and part of frame *a*, as shown at F, Figs. 1 and 3. The two pieces L L rest loosely in their receptacles, and can be taken out to be shaken.

This mat may be manufactured in different sizes to suit different purposes and also in different styles. For instance, the part with the soft mats and scraper may be in the middle and rollers on both sides; or soft mats may be on the two sides of the rollers, or only on one side, as shown in my preferred form in Fig. 1; or the mat may consist of rollers only, as shown in my modified form, Fig. 4.

If desirable, the mat may be hinged or otherwise fastened permanently to the door-sill.

I do not confine myself to any material or size. The frame A may be cast-iron, the rollers B may be of hard wood, iron, twisted wire, may be round, square, or of any other profile, smooth or rough on their outside. If necessary, they may revolve in metallic bearings, sleeves, or sockets inserted into the holes *b*.

What I claim, and desire to cover by Letters Patent, is as follows:

1. The combination of frame A, rollers B, plate C, with bottom *d*, scraper E, and brushy mats L, as described.

2. The scraper E, consisting of movable top part having scraping-edge *e*, being pivoted at *e²* to a permanent bottom plate, in combination with spiral spring *e'*.

3. The combination of frame A, rollers B, plate C, with bottom *d* and brushy mats L.

In testimony of which invention I hereunto set my hand.

SOPHIA M. FEIN.

Witnesses:

FRANCIS M. BIDDLE,
LEOPOLD ADLER.