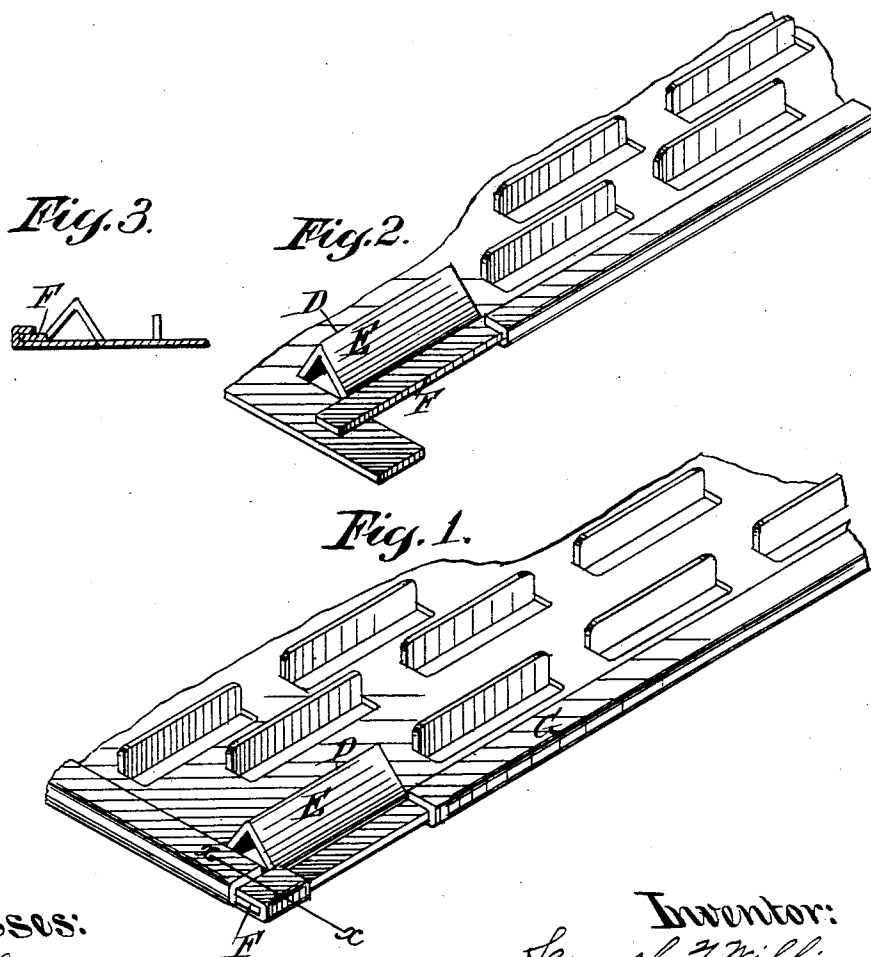


(No Model.)

S. T. WILLIAMS.
SHEET METAL MAT.

No. 580,201.

Patented Apr. 6, 1897.



Witnesses:

D.W. Gardner.
Frank Roark

Inventor:

Samuel T. Williams
By Webb & Myers
His Attys.

UNITED STATES PATENT OFFICE.

SAMUEL T. WILLIAMS, OF PLAINFIELD, NEW JERSEY.

SHEET-METAL MAT.

SPECIFICATION forming part of Letters Patent No. 580,201, dated April 6, 1897.

Application filed December 20, 1895. Renewed February 19, 1897. Serial No. 624,200. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL T. WILLIAMS, a citizen of the United States, and a resident of Plainfield, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Sheet-Metal Mats, of which the following is a specification.

My invention relates to certain new and useful improvements in sheet-metal door-mats, and has for its object the production of a mat of this character which will be extremely cheap and simple in construction and which will thoroughly remove the mud, snow, or ice from all portions of the shoe.

To these ends, therefore, my said invention consists in the details of construction and combination and arrangement of parts, all as hereinafter fully described, and pointed out in the claims.

Referring to the accompanying drawings, in the several figures of which like parts are similarly designated, Figure 1 is a perspective view of a portion of the finished mat. Fig. 2 is a perspective view of a section of the mat, showing the tongues. Fig. 3 is a cross-section on the line *xx* of Fig. 1.

In the drawings, A is the mat, which is preferably made of sheet iron or steel and is provided with the projections B, which are stamped up from the metal forming the body of the mat. These projections B are preferably about half an inch in height and are designed to cleanse the sole of the shoe, the corners of said projections being rounded to avoid any liability of cutting or otherwise defacing the shoe. The hollow of the foot, however, frequently becomes clogged with mud or ice, which, if not dislodged, will soil and injure the carpets or floor, and, so far as I am aware, with the mats now in use there is no means for removing the same. In my improved device, however, I provide means for accomplishing this result, and to this end I arrange on one or more of the corners thereof a suitable scraper D for the hollow of the foot. In making this scraper D the metal forming the body of the mat is cut in such manner as to leave a strip of metal E, provided with the tongues or projecting portions F. The strip E is then bent into angular shape, as shown, to form the scraper D. I prefer to form a rim G by turning the edges of the mat over upon the body thereof, and in this case a portion of the rim will be stamped down over the

tongues F of the scraper, securely holding said scraper against spreading. I may, however, secure the free end of said scraper in place by riveting or otherwise fastening the tongues F to the body of the mat, and when this is done any suitable form of rim may be used.

The mat here shown and described may be easily stamped from a single piece of sheet metal and will ordinarily require but one operation for the production of the finished mat. The mat may afterward be painted, japanned, or galvanized to protect it against rust, if desired.

It will be seen that by my invention I produce a sheet-metal mat which is extremely light and substantial in construction, and which can be cheaply and economically manufactured, and in the use of which all portions of the shoe may be thoroughly cleaned.

What I claim as new, and desire to secure by Letters Patent, is—

1. A sheet-metal mat having a series of projections for cleaning the sole of the shoe, and a scraper for cleaning the hollow of the shoe, said scraper comprising a triangular portion extending above the series of projections and being provided with tongues, by means of which it is secured to the body of the mat, substantially as described.

2. In a mat having a series of struck-up projections of substantially equal height for the sole of the shoe, a scraper for the hollow of the shoe formed out of the body of the material composing the mat by cutting said material to form a strip having a free end with laterally-projecting tongues at each side thereof, and then folding said strip to conical form and rigidly securing the free end to the body of the mat by means of said tongues, substantially as described.

3. A sheet-metal mat having a series of projections for cleaning the sole of the shoe, and the scraper D, provided with the tongues F, and rim G, stamped over upon the tongues F, substantially as described.

Signed at New York, in the county of New York and State of New York, this 25th day of October, 1895.

SAMUEL T. WILLIAMS.

Witnesses:

EUGENE V. MYERS,
E. N. HEWSON.