

W. E. LAWRENCE.
Manufacture of Door-Mats.

No. 227,115.

Patented May 4, 1880.

Fig. 1.

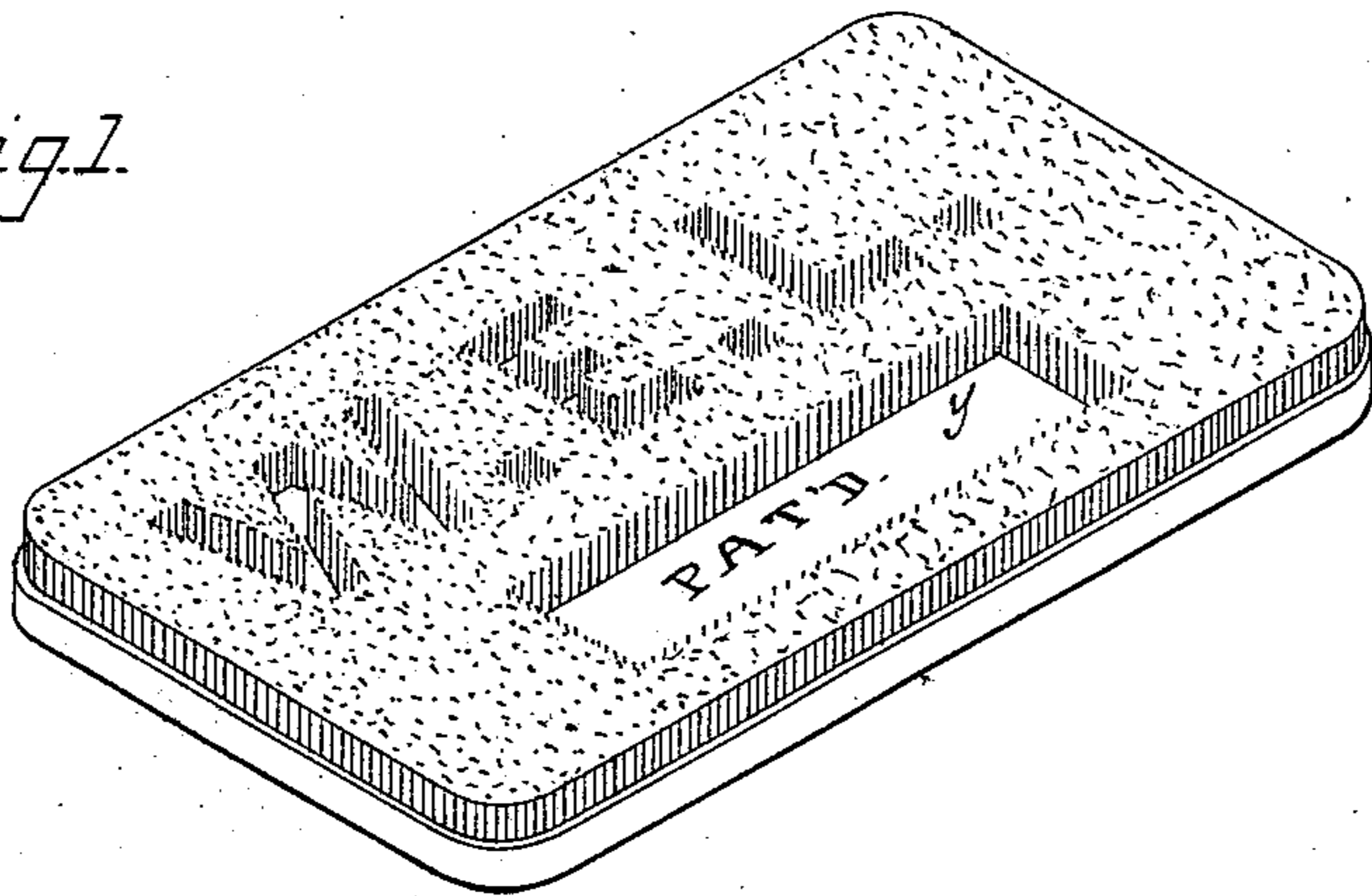


Fig. 2.

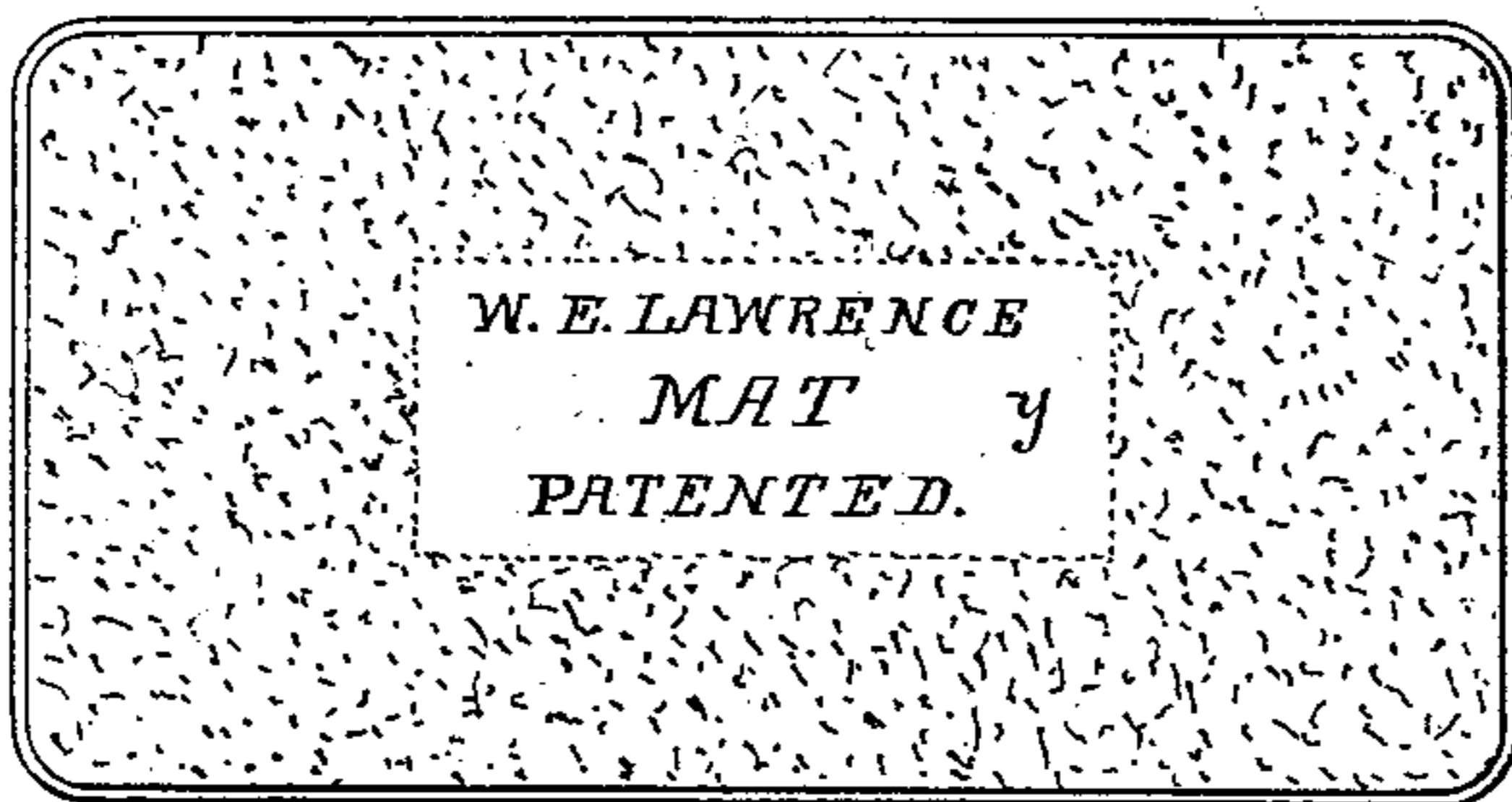


Fig. 3.

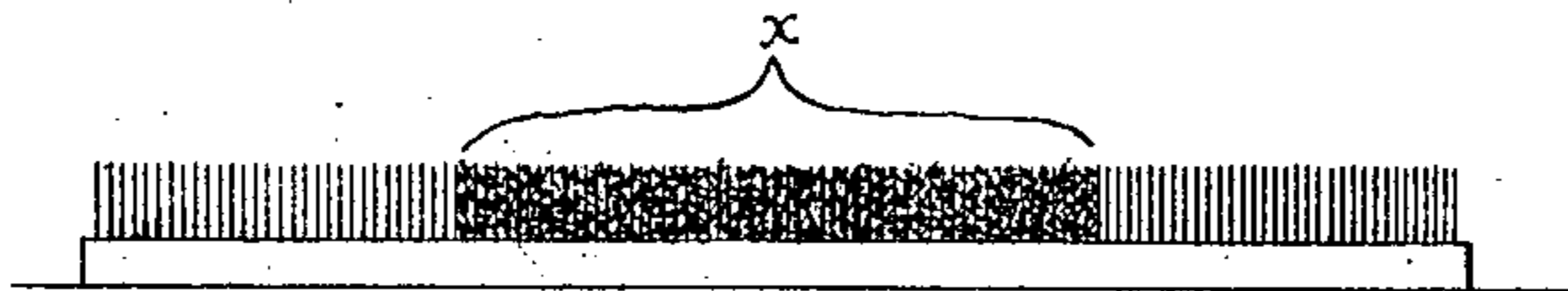
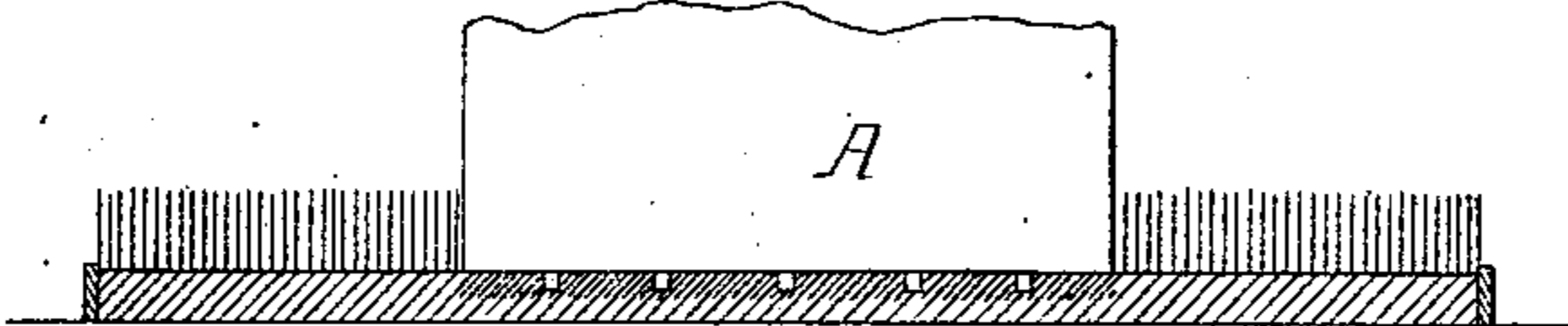


Fig. 4.



Attest:
Courtney A. Cooper
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Wm E Lawrence
By his attorney
Charles E. Foster

UNITED STATES PATENT OFFICE.

WILLIAM E. LAWRENCE, OF NEW YORK, N. Y.

MANUFACTURE OF DOOR-MATS.

SPECIFICATION forming part of Letters Patent No. 227,115, dated May 4, 1880.

Application filed February 26, 1880.

To all whom it may concern:

Be it known that I, WILLIAM E. LAWRENCE, of the city, county, and State of New York, have invented an Improvement in the Manufacture of Door-Mats, of which the following is a specification.

My invention relates to the manufacture of mats having a pile-surface; and it consists in the means hereinafter described, whereby the pile is displaced, hard faces formed below the pile, and the back stiffened.

In the drawings, forming a part of this specification, Figure 1 is a perspective view of a cocoa mat constructed in accordance with my invention; Fig. 2, a plan view, showing a mat differently made, and Figs. 3 and 4 sections illustrating the construction of the mat.

It has been customary to mark ordinary pile-mats by cutting away the pile, or by weaving the mats with piles on part only of the surface, both of which modes are expensive, while the latter leaves openings in the back and weakens the same, or by dyeing, the color soon fading away.

It is desirable to remove the pile in parts of the mat in some instances to vary the surfaces, in others to form dirt-receptacles, and in others, as in the mat patented to C. J. Ferguson August 26, 1879, to form a receptacle for a scraper.

I avoid the expense and difficulty of cutting away the pile by mashing down the latter upon the backing and cementing it in place, thereby stiffening the backing and also forming hard surfaces on which letters and other characters may be embossed, stenciled, or otherwise marked. To effect this I first apply to

the pile-face where it is to be depressed a liquid, powdered, or pasty material, as cement, paste, or other substance which will harden under pressure or heat and pressure. For instance, I apply powdered rosin to the central portion, *x*, of the pile-surface, and I then force thereon a die, *A*, of any suitable shape, and heated, if necessary, said die having at the bottom embossed projections or recesses of any suitable character.

The die softens the cement and mashes down the pile, forming a depression, *y*, with a smooth face, which hardens on the removal of the heat and pressure, said face being embossed with the characters cut or formed upon the die.

One or more of such depressions may be so formed, either in the form of letters or otherwise, names being thus embossed upon the pile-surface to indicate ownership, for an advertisement, or for the reception of scrapers, as aforesaid.

I claim—

1. The within-described improvement in making mats having pile-surfaces, by applying cement or equivalent substance to the pile and mashing down the latter by dies, as set forth.

2. A door-mat having one or more depressions, the faces of which are formed of the compressed and cemented pile, as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. E. LAWRENCE.

Witnesses:

WILLIAM PAXTON,
COURTNEY A. COOPER.