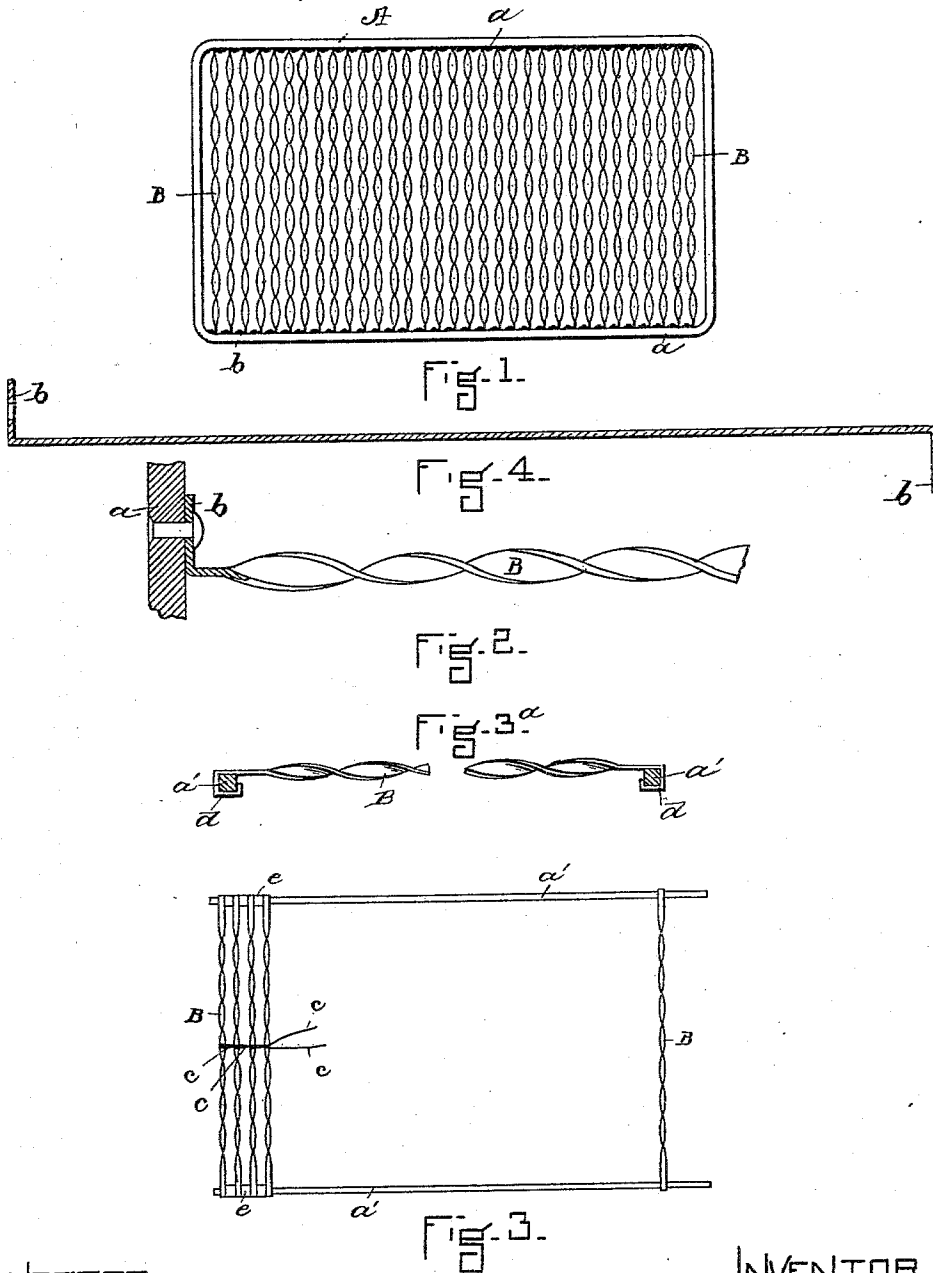


(No Model.)

G. S. CHASE.
METAL DOOR MAT.

No. 414,375.

Patented Nov. 5, 1889.



WITNESSES.

J. H. Dorem

A. B. Merrill.

INVENTOR.

Geo. Chase
by Atty
Parker & Raymond
Charles H. Chase

UNITED STATES PATENT OFFICE.

GEORGE S. CHASE, OF CAMBRIDGE, MASSACHUSETTS.

METAL DOOR-MAT.

SPECIFICATION forming part of Letters Patent No. 414,375, dated November 5, 1889.

Application filed May 8, 1889. Serial No. 309,981. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. CHASE, of Cambridge, in the county of Middlesex and State of Massachusetts, a citizen of the United States, have invented a new and useful improvement in Metal Door-Mats, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention relates to a metal door-mat having a metal rim and parallel twisted flat metal strips placed any desired distance apart and united at their ends to the end bars of the rim and stayed to the side bars when desired.

In the drawings, Figure 1 is a plan view of my invention. Fig. 2 is a part of strip and frame, showing one way of fastening. Figs. 3 and 3^a illustrate a modification hereinafter described. Fig. 4 is a sectional view of one of the strips before being twisted to take its place in the frame of the mat.

A represents the metal rim. It may be of any shape in section, and is preferably in one piece, having its ends united by welding or riveting.

B represents the parallel twisted flat metal strips. Each strip is made from a flat blank of substantially the shape represented in Fig. 4 by twisting or turning to any desired extent, and the ends *b* of each twisted strip are

secured to the side bars *a* of the metal rim by riveting, as represented in Fig. 1, or as represented in Fig. 3, or in any other way. These are secured to the rim, preferably, to bring the edge of each strip slightly above the upper level of the rim. Where the mat is of some width, the strips are stayed to each other and to the side by the stay or cross pieces *c*.

In Figs. 3 and 3^a I have represented the twisted flat strips as extended crosswise and secured to two bars *a'*, which take the place of the rim above referred to, and the ends of the twisted strips are made very flat and bent to form eyes *d*, which embrace the bars *a'*, and the strips are separated from each other by spacing-washers *e*.

The advantage of the invention arises from its effectiveness and the cheapness of its construction. In the small sizes it is useful upon steps as a mat or tread.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

As an improved article of manufacture, a metal door mat or tread having supporting-bars, and the parallel twisted flat metal strips B, united at their ends to the said bars, as and for the purposes described.

GEORGE S. CHASE.

In presence of—

F. F. RAYMOND, 2d,
J. M. DOLAN.