

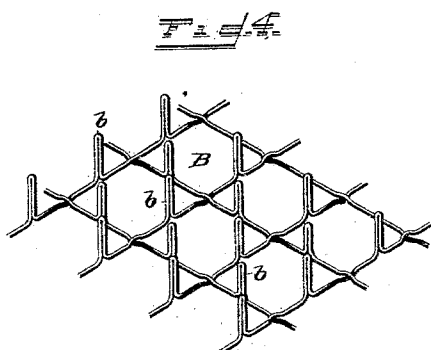
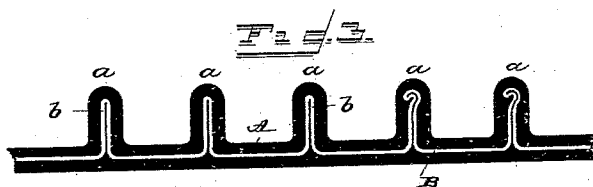
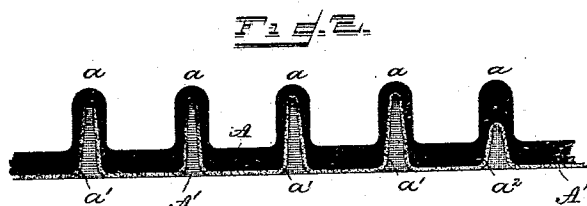
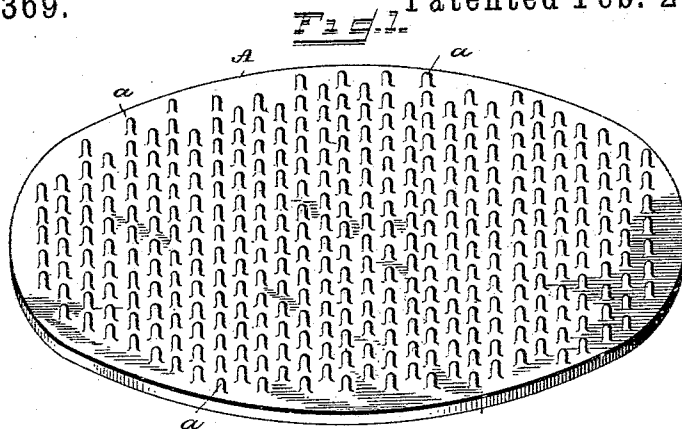
(No Model.)

C. S. HYER.

RUBBER MAT FOR STORE CASES AND COUNTERS.

No. 378,369.

Patented Feb. 21, 1888.



Witnesses

L. J. Elliott.

Thomas O'Reall

Inventor.

Charles S. Hyer

UNITED STATES PATENT OFFICE.

CHARLES S. HYER, OF WASHINGTON, DISTRICT OF COLUMBIA.

RUBBER MAT FOR STORE CASES AND COUNTERS.

SPECIFICATION forming part of Letters Patent No. 378,369, dated February 21, 1888.

Application filed October 25, 1887. Serial No. 253,348. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. HYER, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Rubber Mats for Store Cases and Counters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in rubber mats for store counters and cases for the reception of coin and analogous purposes; and it consists in the novel construction and arrangement of the parts thereof, which will be more fully hereinafter described, and pointed out in the claims.

Heretofore the manufacture of devices of this class has been but partially successful, owing to the want of durability to offer resistance against breakage resulting from the handling thereby of customers incited by curiosity and disfiguring the surface thereof by pulling the teats or nipples off and rendering the mats of little value and utility.

The object of my invention therefore is to construct these mats with the usual forms of teats or nipples projecting upward from a web or base and to re-enforce the same by means of an inclosed hollow construction of the nipples as a whole and the teats or nipples individually by means of suitable material, which may be applied to the mat while in the mold, molded therein, or secured thereto after the mat is removed from the mold. I attain this object by the construction illustrated in the accompanying drawings, wherein like letters of reference indicate similar parts in the several views, and in which—

Figure 1 is a perspective view of a mat embodying my improvement. Fig. 2 is a longitudinal vertical section of a part of the mat on an enlarged scale and showing a fabric re-enforcement applied thereto. Fig. 3 is a similar view of the device, showing a wire re-enforcement. Fig. 4 is a detail perspective view of a portion of the wire re-enforcement.

A indicates the base or web, which is formed with upwardly-projecting teats or nipples *a*. As shown in Figs. 1 and 2, the mat is formed with a series of cavities, *a'*, which extend from

the bottom of the mat some distance up into the teats or nipples *a*, or only a short distance above the base of each nipple, as shown at *a''* in Fig. 2. A piece of textile fabric, *A'*, or other suitable material, of suitable size, having an adhesive mixture applied to one side thereof, may then be placed against the under side of the mat, either while in the mold or after removal therefrom, and pressed into the cavities *a'*, and thereby strengthen or re-enforce the teats or nipples *a* against breakage or displacement.

As shown in Figs. 3 and 4, a wire-netting, *B*, may be used, which is constructed with upwardly-projecting bends *b*, which pass into each nipple or teat, the body of the said netting being supported by and held within the base *A*. The upper ends of the projections *b* may be either straight or bent, as shown, and the entire netting is supported within the mold by suitable means and the melted rubber poured thereinto around said netting to cover the same, as shown in Fig. 3.

It will be understood that I do not limit myself to the exact details in the form and manner of making the devices herein described and set forth, nor to any special kind of mold for constructing the same, as the forms may be varied, and molds well known in the art may be made and used with facility and practicability.

It is my intention that the mats shall be constructed with hollow or cavities teats, nipples, or projections, so that in using the mats formed thus a suction is established between the same or the base or rest upon which they are placed; and a stability of position thereby obtained. This construction also prevents the teats or nipples from being broken off, as any external pressure, instead of breaking them off, only tends to collapse them, and being more elastic they also hold coin between them more securely.

It will also be understood that the improvement herein set forth has for its end the attainment of strength and durability, as well as a saving in the material in manufacturing the same and reducing the cost thereof.

The forms of mat set forth almost entirely if not wholly obviate the difficulties heretofore encountered, and the cost of manufacture is not

in the least increased as comparatively considered with the durability and utility consequent from the improved re-enforced construction.

Having thus described my invention, what
5 I claim as new, and desire to secure by Letters Patent, is—

1. As an improved article of manufacture, a mat for the purposes set forth, constructed of rubber or rubber compound and having upwardly-projecting teats or nipples formed individually with cavities or made hollow.
10

2. A rubber mat for the purposes set forth, having teats or nipples inclosing a re-enforcement which is integral with a re-enforcement in
15 connection with the base of the mat.

3. As an improved article of manufacture, a mat constructed of rubber or rubber compound, having upwardly-projecting teats or nipples, the base whereof as an entirety and the teats or

nipples individually being provided with a re- 20
enforcement of suitable material, the continuity of rubber surface being at all points preserved, whereby the teats or nipples are strengthened against breakage and disfiguration avoided, substantially as described. 25

4. The herein-described rubber mat, having upwardly-projecting teats or nipples provided with cavities therein, and a suitable fabric with an adhesive mixture thereon, which lies against the base or bottom support of the mat and is
30 pressed into the cavities formed in the teats or nipples.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES S. HYER.

Witnesses:

G. SARGENT ELLIOTT,
HORACE L. BEALL.