No. 613,067. Patented Oct. 25, 1898.

C. LEFFLER.

METALLIC BOX BINDING STRIP.

(Application filed Oct. 19, 1897.)

(No Model.)

Fig. 1.

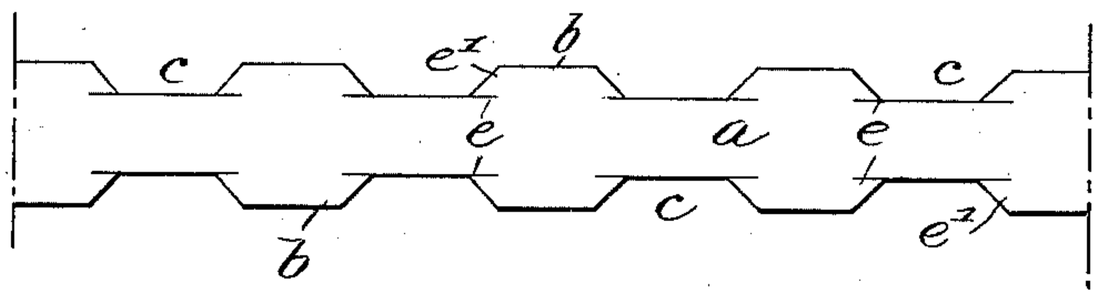

Fig. 2.

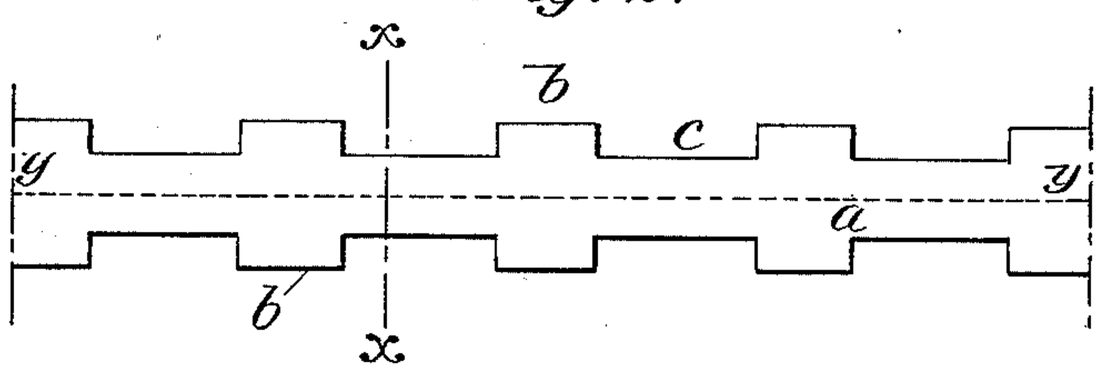

Fig. 3.

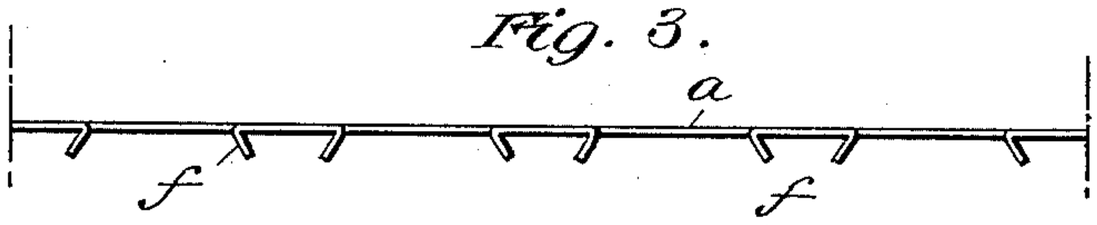

Fig. 4.

WITNESSES:

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METALLIC BOX-BINDING STRIP.

SPECIFICATION forming part of Letters Patent No. 613,067, dated October 25, 1898.

Application filed October 19, 1897. Serial No. 655,726. (No model.)

To all whom it may concern:

Be it known that I, CHARLES LEFFLER, a citizen of the United States, residing at New York, (Brooklyn,) in the county of Kings and State of New York, have invented certain new and useful Improvements in Metallic Box-Binding Strips, of which the following is a full, clear, and exact description.

This invention pertains to metallic strips for binding and reinforcing the corners of pasteboard or other boxes of thin material.

The object of the invention is to provide a box-binding strip which can be stamped out of sheet material without waste and which is provided with means for fastening the strip to the corner of the box in a secure manner.

The strip is provided with projections along each edge forming serrations, each projection being shaped like a cross-section of the frustum of a cone, with the base-line next to the body of the strip. Each projection is partially severed at each end along its base-line to form lateral wings or claws, which may be bent downward at substantially right angles to the strip to enter and clench into the sides of the box.

The strip is illustrated in the accompanying drawings, in which—

Figure 1 is a plan as it is stamped from the sheet. Fig. 2 is a plan with the wings or claws bent downward and showing the appearance of the strip when applied to the box. Fig. 3 is an edge view of the strip as shown in Fig. 2, and Fig. 4 is a section on line *x x* of Fig. 2.

Referring to the drawings, the metal strip *a* appears in Fig. 1 as it is stamped by suitable dies from the sheet. Along each edge is a series of projections *b*, alternating with a series of indentations or recesses *c*. The shape of the recesses is the same as that of the projections except that they are reversed, so that the material stamped out to form the recesses will form the projections for another strip. The shape of each projection is that of the cross-section of a frustum of a cone, with its base-line against the body of the strip. The projection is slit inward a short distance along its base-line from each end, as indicated at *e*, to form triangular wings *e'*, which when bent inward along a transverse line form claws *f*. When the strip is applied to the corner of the box, it is bent along the dotted line *y y*, Fig. 2, and the claws are driven into the sides of the box and are slightly clenched by being bent toward each other, as shown in Fig. 4. The material of the box thus confined between each pair of claws is rectangular in shape and the perforations made by the two claws do not run together or approach each other, and thus weaken the hold of the claws, as would be the case if they entered the material at an angle to each other.

It has been proposed heretofore to form the edges of these strips with dovetail recesses and projections and bend the outer corners of the projections inward to form the claws; but the dovetail shape necessitates that the bending shall be on a line oblique to the length of the strip, and hence the two perforations made by each pair of claws in the sides of the box will approach each other very closely, if they do not entirely meet, and thus weaken the hold which the strip takes on the corner of the box.

Having thus described my invention, I claim—

A metallic strip for box-corner binding, having its edges formed with projections shaped like the cross-section of the frustum of a cone with the base-line against the body of the strip, each projection being slit inward along its base-line from each end, forming wings, said wings being bent inwardly on lines at right angles to the strip to form fastening-claws, substantially as described.

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

CHAS. LEFFLER.

Witnesses:
WILLIAM JANSON,
HENRY RAU.