

(No Model.)

C. H. LEONARD.
FABRIC FOR WRAPPERS.

No. 314,857.

Patented Mar. 31, 1885.

Fig. 1.

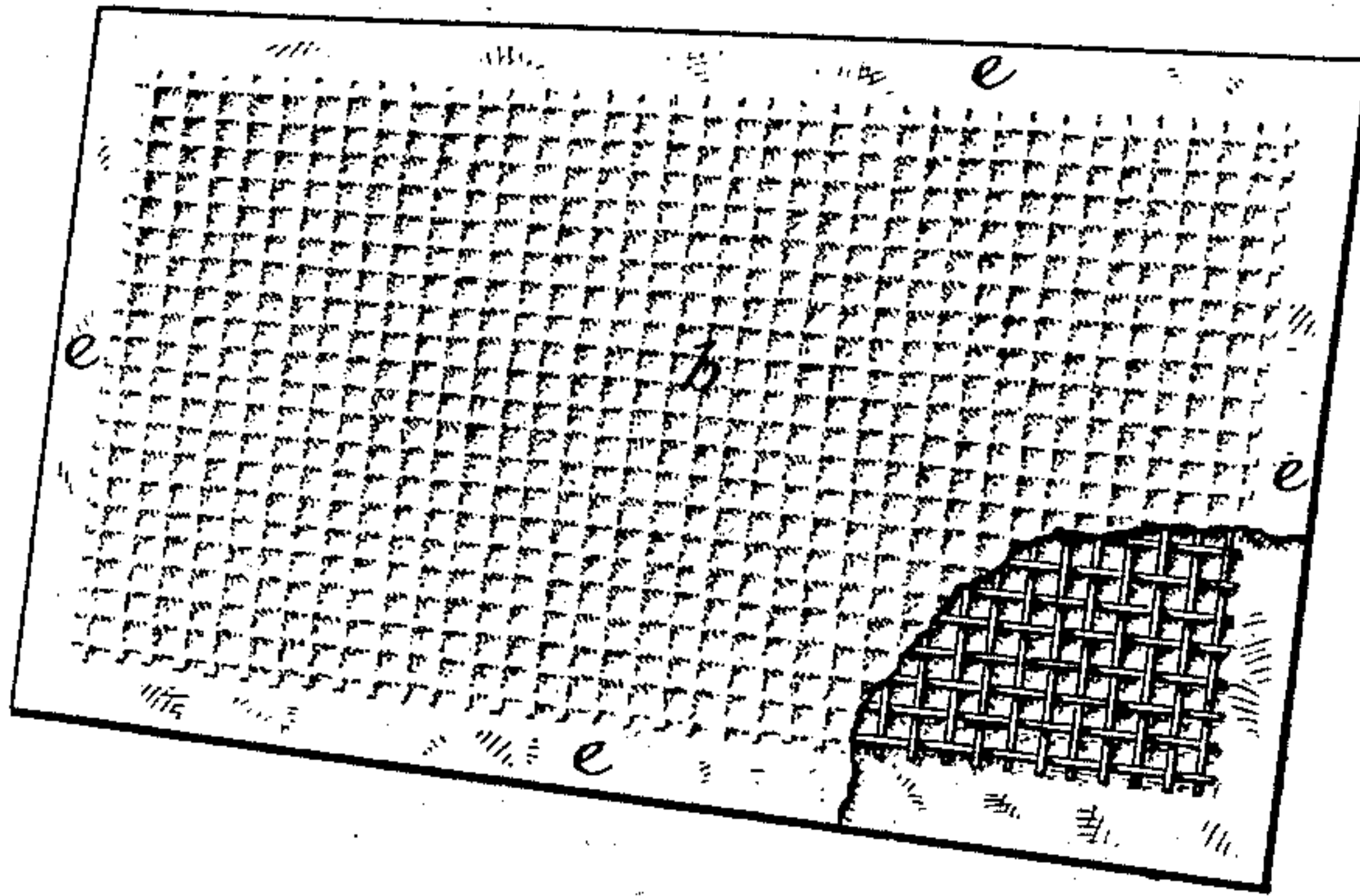


Fig. 2.

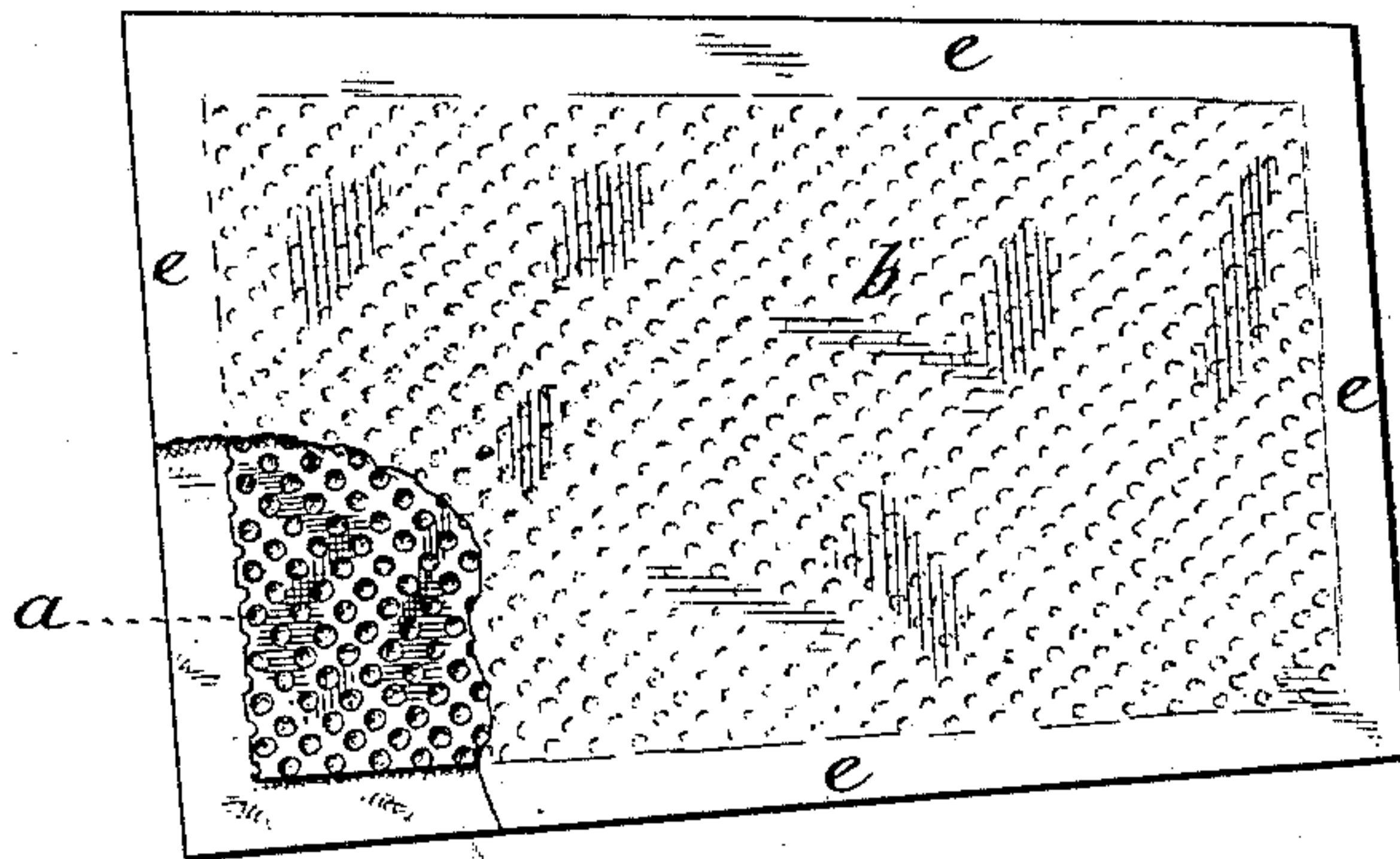


Fig. 3.

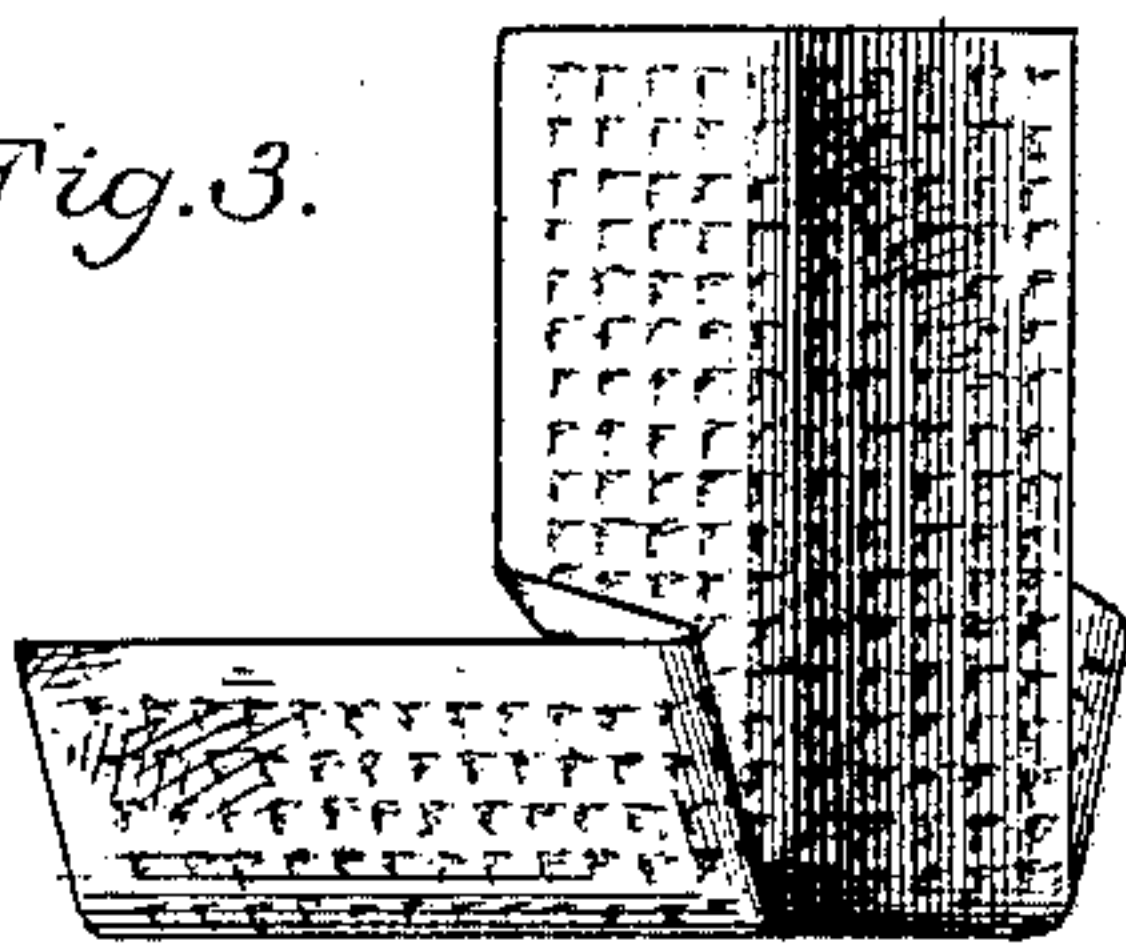
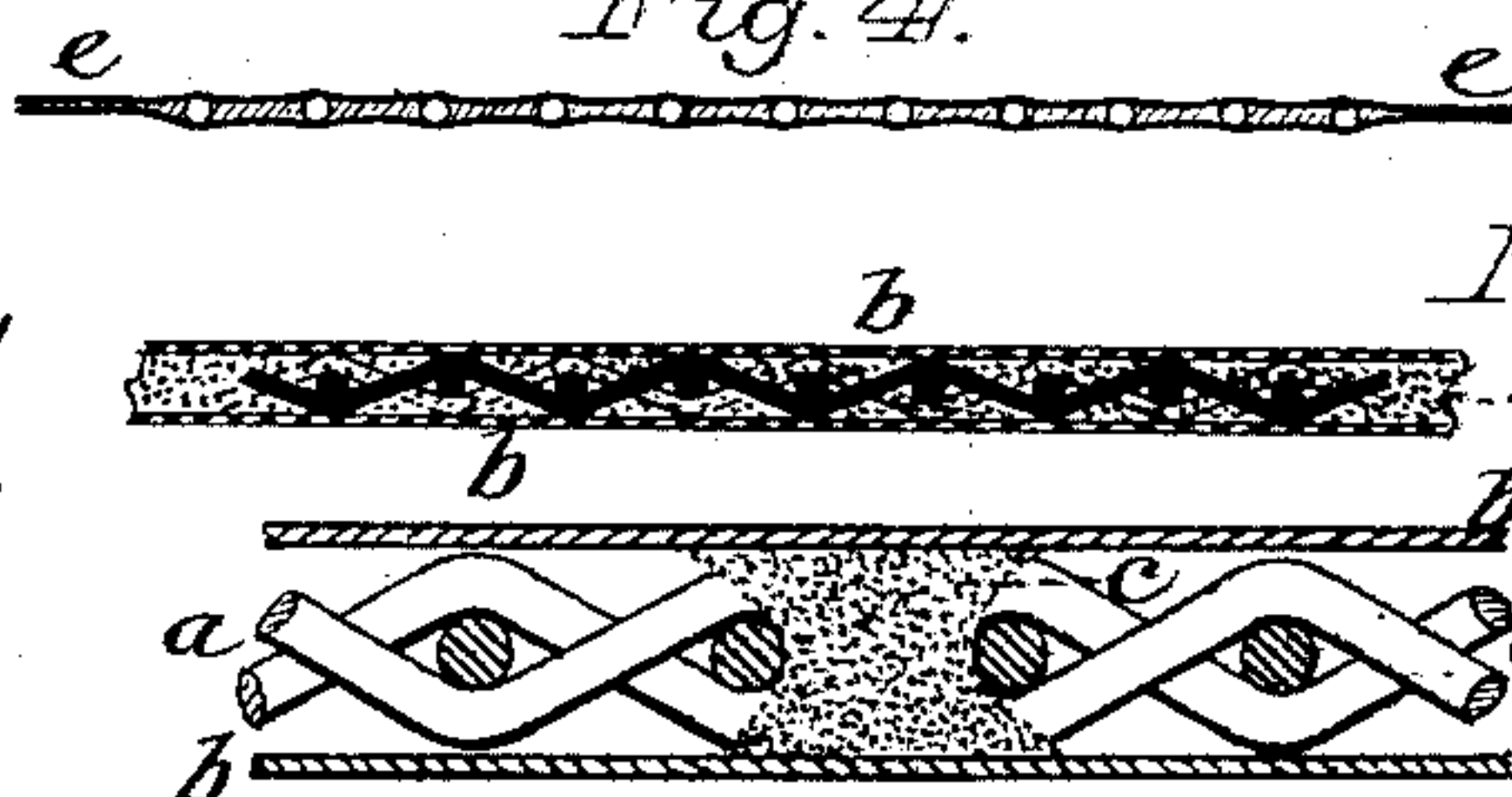


Fig. 4.



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UNITED STATES PATENT OFFICE.

CHARLES HENRI LEONARD, OF DETROIT, MICHIGAN.

FABRIC FOR WRAPPERS.

SPECIFICATION forming part of Letters Patent No. 314,857, dated March 31, 1885.

Application filed December 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HENRI LEONARD, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Fabrics for Wrapping Purposes, &c., of which the following is a specification.

My invention relates to improvements in flexible metal-lined fabrics; and the object of my improvement is to produce a flexible fabric having a metal lining enveloped in a flexible covering terminating in a non-lined sealed border, whereby the fabric may be used for being formed into book or parcel corner protectors, and for wrapping purposes in which the covering material will have a sealed surrounding part of greater flexibility than the enclosed reticulated metal body. A strong and durable fabric is thus produced, easily bent and pressed into the desired form or shape, and retaining such shape with comparative stiffness, while preventing injury from the metal lining. This is important in using the fabric for book-corner protectors and for preventing the edges of the metal-lined fabric from fraying or injuring the hands in using it. The covering material may be any suitable wrapping paper or cloth; but its outer surface must be free from the cementing material and smooth. A flexible metal-lined fabric composed of wire-gauze covered on both sides with tarred paper, making a composite fabric, has been used for roofing purposes, and I do not claim, broadly, such a fabric treated with asphaltum to render it water-proof.

My improvement does not contemplate a water-proof fabric in which the waterproofing substance is applied to both sides of the paper, but a fabric in which the cementing material is applied to that side only which cements it to the flexible metal lining, leaving its outer surfaces smooth and its edges cemented together outside of the metal lining to form a non-lined border.

In the accompanying drawings, Figure 1 represents a view in perspective of a fabric of my invention, the imprint of the wire-cloth carrier being shown by + dottings, and one corner being broken away to show the construction; Fig. 2, a similar view, in which perforated sheet metal is used as the carrier; Fig. 3, a formed book-corner or box-corner pro-

jector made of the material; and Fig. 4, enlarged sections of the fabric.

In these drawings *a* is the carrier, of wire-cloth or perforated sheet metal, and *b b* the surface-covering, while the paste or cement *c* is seen between the meshes of the wire.

In carrying out my improvements I prefer to take the ordinary wire-cloth of commerce and cover it with paper, such as is commonly used for wrapping purposes, in such manner that the said paper shall project beyond the four edges of the said wire-cloth blanks and be sealed down, as at *e*, it being understood that the blanks are made in square or rectangular shape, and in various sizes, the smaller ones to serve for the protection of the corners of books, paper boxes, &c., and the larger sizes for wrapping parcels or for protecting the corners of large parcels or bundles.

In cementing the paper to the wire-cloth the cement or glue paste, which is of a nature that will not become brittle when dry, penetrates between the meshes of the wire-cloth, or, as the case may be, perforated or reticulated pliable sheet metal, and then spreads out upon the flat surfaces of the paper or other covering material on either side of said wire-cloth or perforated metal. This means of uniting the parts causes the formation of a kind of double cone, *c'*, Fig. 4, in the interstices of the carrier, contributing very materially to the stiffening and strengthening of the manufactured product.

I claim—

1. The composite fabric herein described, composed of the flexible reticulated metal lining covered on both sides with paper or cloth projecting beyond the edges of said lining, and cemented to form a sealed non-lined border, as and for the purpose specified.

2. The metal-lined fabric herein specified, composed of the flexible reticulated metal lining enveloped by paper or cloth cemented to said lining and sealed at the edges in a border, *e*, all round outside the covered metal lining, as shown, and for the purpose stated.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

CHARLES HENRI LEONARD.

Witnesses:

CHAS. N. AYRES,

ARON N. RICHMOND.