

(No Model.)

L. BAILEY.
COPYING PAD.

No. 301,202.

Patented July 1, 1884.

Fig. 1

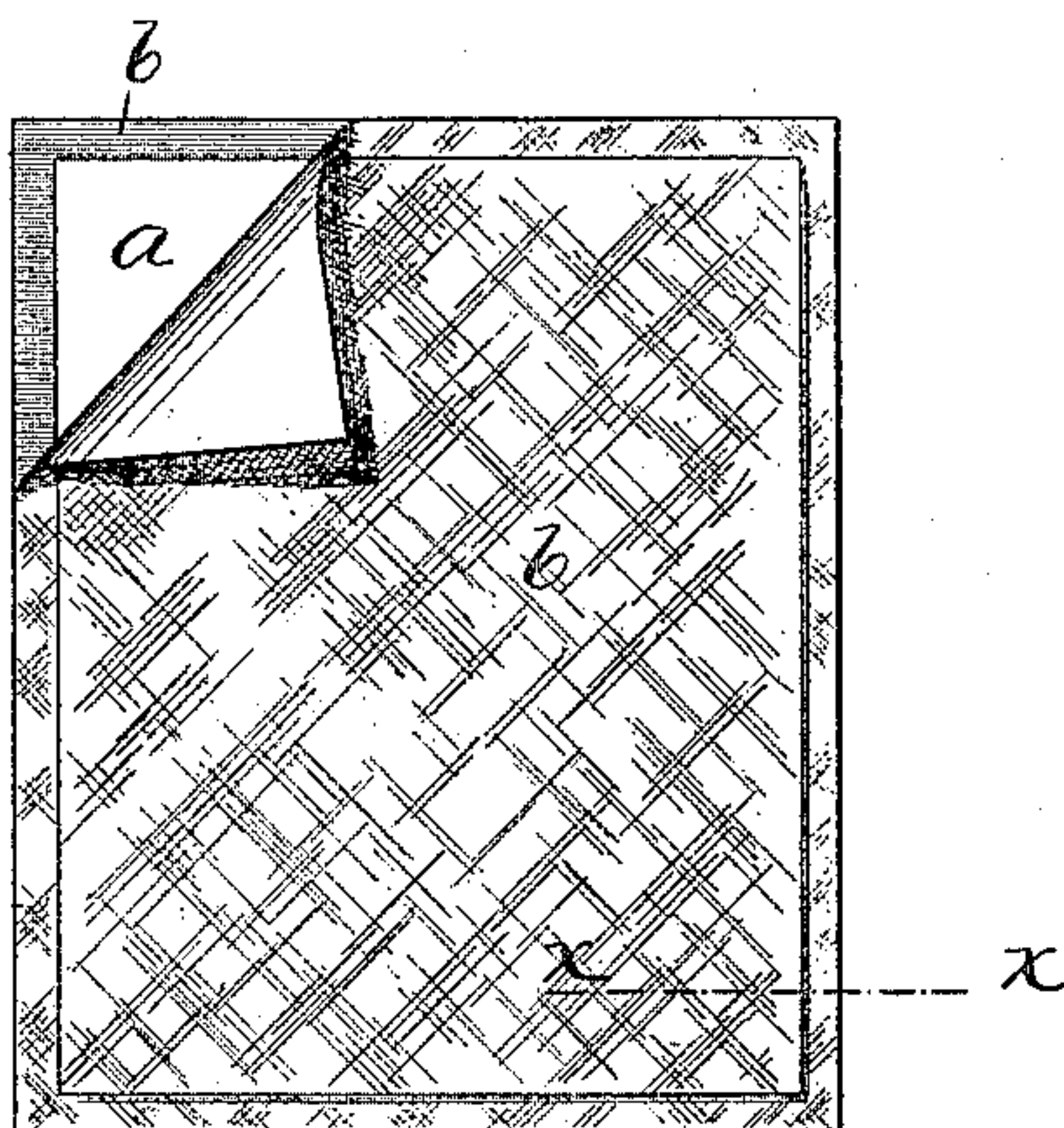


Fig. 2

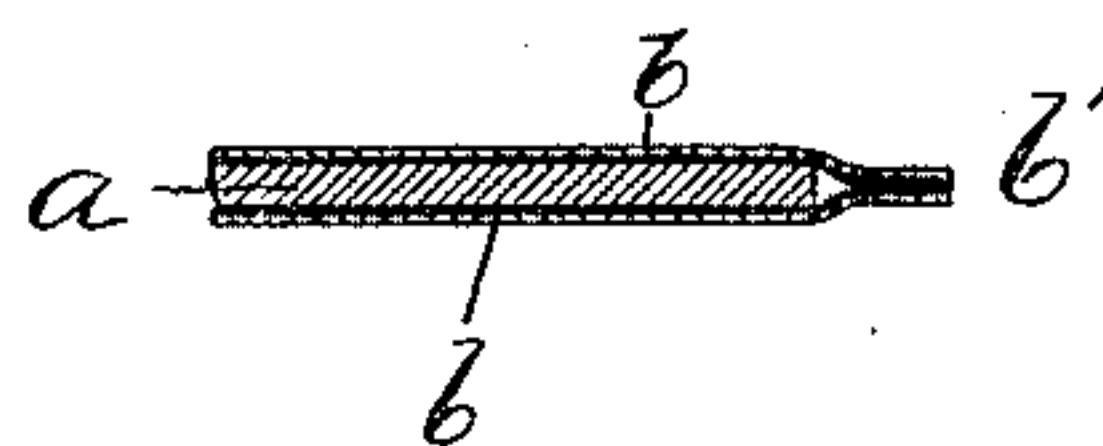
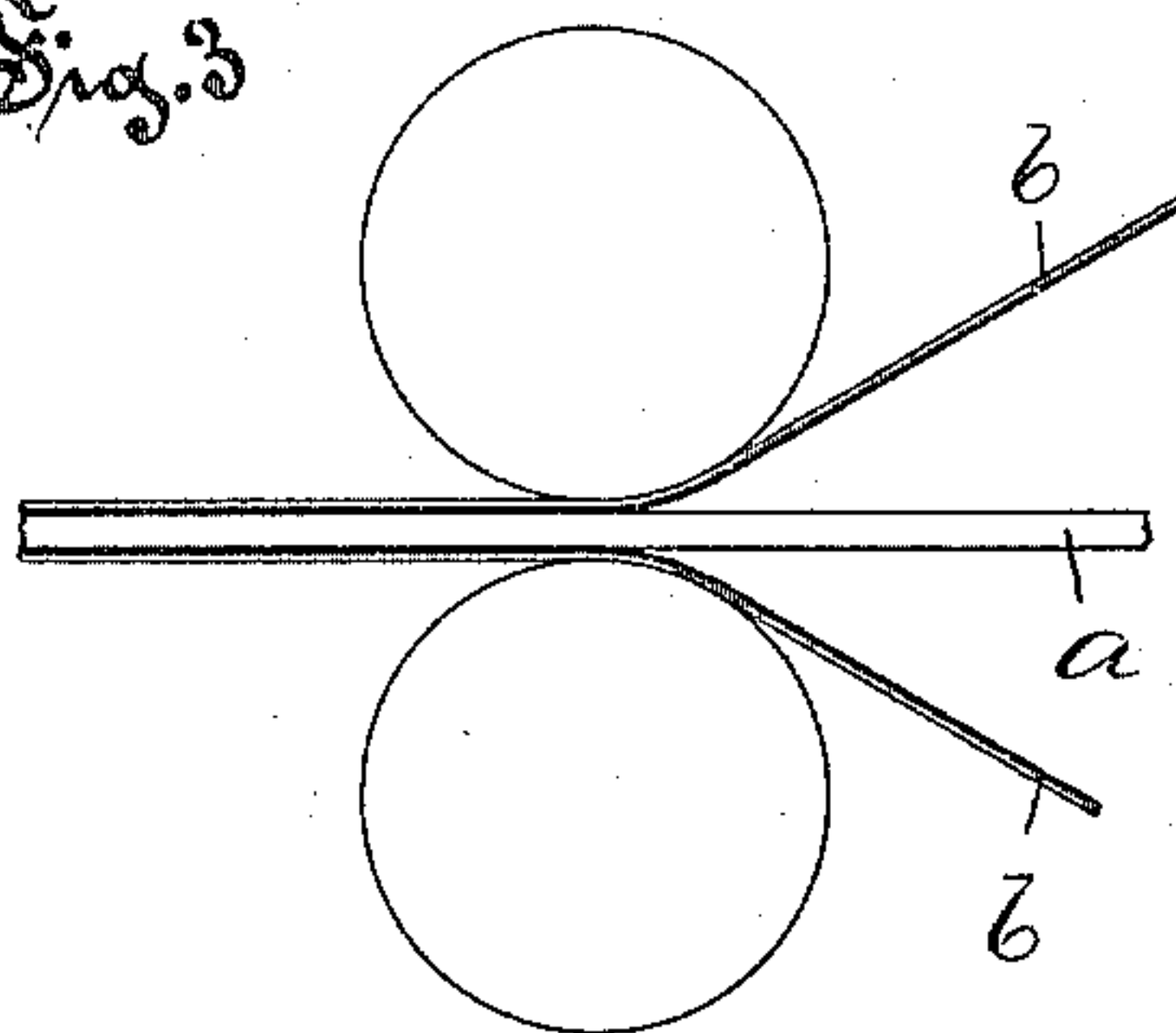


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

LEONARD BAILEY, OF HARTFORD, CONNECTICUT.

COPYING-PAD.

SPECIFICATION forming part of Letters Patent No. 301,202, dated July 1, 1884.

Application filed December 13, 1883. (No model.)

To all whom it may concern:

Be it known that I, LEONARD BAILEY, of Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Copying-Pads; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

Figure 1 is a plan view of one of my improved pads, the corner of one of the layers of cloth being turned back to show construction. Fig. 2 is a view in cross-section of a part of same on enlarged scale on line *x x* of Fig. 1. Fig. 3 is a diagram view illustrating a step in the process preferably employed in making the pad.

In the common method of copying letters by what may be called the "wet process" cloths and blotting-pads of more or less absorbent or water-retaining material are used with sheets of water-proof material to protect all but the page to receive the copy. More or less difficulty has been experienced in the search for a copying-pad that will be of the desired rigidity in large as well as small sheets, and at the same time as cheap and convenient in use as the common material so long used, with good absorbent qualities and durability. My improvement meets these requirements; and it consists in a copying-pad made with a central layer of stiff paper or equivalent material of a good degree of tensile strength, as well as stiffness, intimately connected with covering-layers of textile or knitted fabric by means of rubber or other cement.

In the accompanying drawings, the letter *a* denotes a sheet of paper or equivalent material of considerable tensile strength, and of such stiffness as will prevent it from wrinkling or becoming crumpled by handling; *b*, covering-layers of cloth, preferably stockinet or similar knitted fabric, that are fastened to the central sheet by a thin layer of cement,

preferably rubber, the whole united by heat and pressure.

In making my improved pad, the cloth is first covered on one side with the prepared rubber in a thin layer by passing the cloth and rubber between the heated rolls of the press in the ordinary manner now common in the art for such uses, and by another step the paper central sheet is passed through the rolls between two sheets of the rubber-coated cloth, with the rubber side in contact with the paper, to which it is caused to adhere by the heat and pressure of the rolls, as illustrated in the diagram view in Fig. 3. This means of making the pads is the one preferably employed by me as being the one giving most uniform results, and the most economical, the pads being cut from the sheets in any desired sizes for use. Other methods and means may obviously be employed to produce the same result, the main feature of my improvement residing in the product.

In order to give added strength to the pad, it may be made with the cloth covering-sheets overlapping the central stiffening-sheet and united, as seen at *b'*, along the edge of the pad, and this form has some advantages in preventing abrasion of the edges.

In my improved pad the central stiffening-sheet in the pad preserves the sheet-like form with but little added weight over cloths alone, and the covering, when of stockinet, furnishes a water-retaining material much softer than the common cloth, and one that from its peculiar structure holds a greater amount of moisture and retains it while making a greater number of copies.

I am aware that pads have been made by variously uniting absorbent and waterproofed material, and the pad as composed of a union of such material I do not broadly claim.

I claim as my invention—

1. As a new article of manufacture, the copying-pad composed of a central stiffening-layer intimately united, as by rubber cement, with covering-layers of absorbent fabric, all substantially as described.

2. As a copying-pad, in combination, the central paper layer, *a*, with covering-layers

b, of stockinet, united to the central layer by rubber cement, the whole compressed and united by heat and pressure, all substantially as described.

- 5 3. In a copying-pad of the within-described class, the central stiffening-layer, in combination with the covering-layers of knitted or textile fabric, united to the central layer by

adhesive material, and overlapping the central layer and united, as by cement, along the edge 10 of the pad, all substantially as described.

LEONARD BAILEY.

Witnesses:

CHAS. L. BURDETT,
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