

(No Model.)

L. A. DEUTHER.

BACK FOR PICTURE AND OTHER FRAMES.

No. 274,737.

Patented Mar. 27, 1883.

Fig. 1.

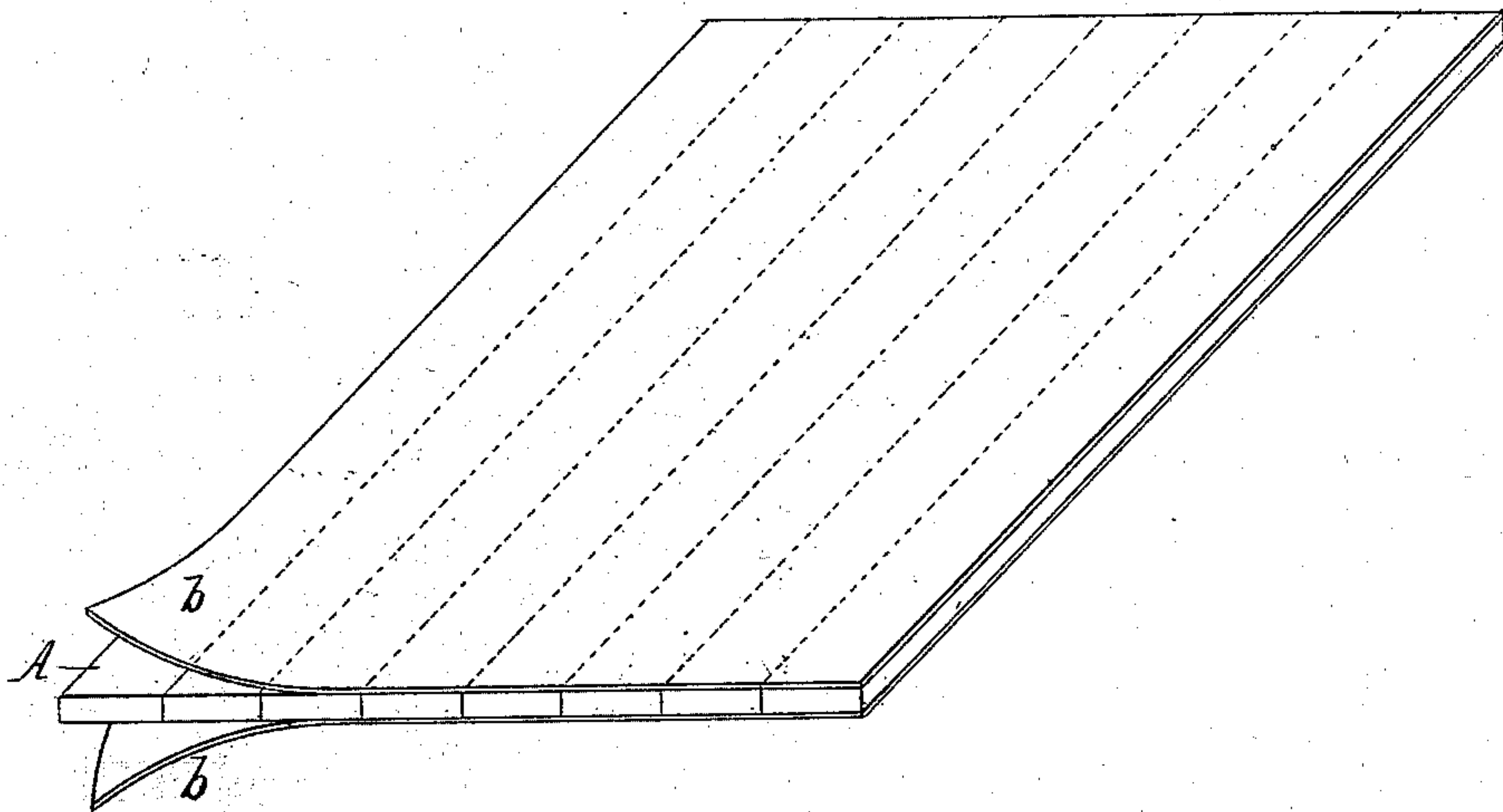


Fig. 2.

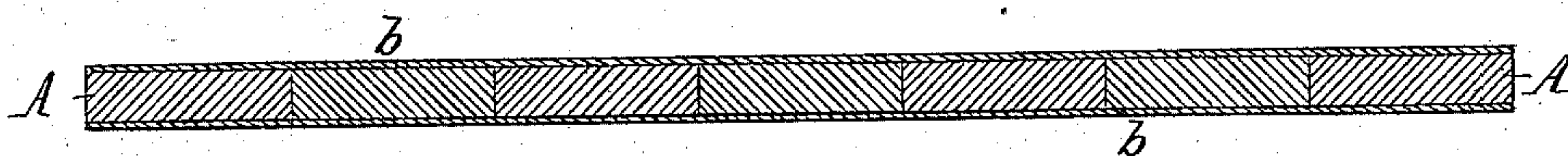
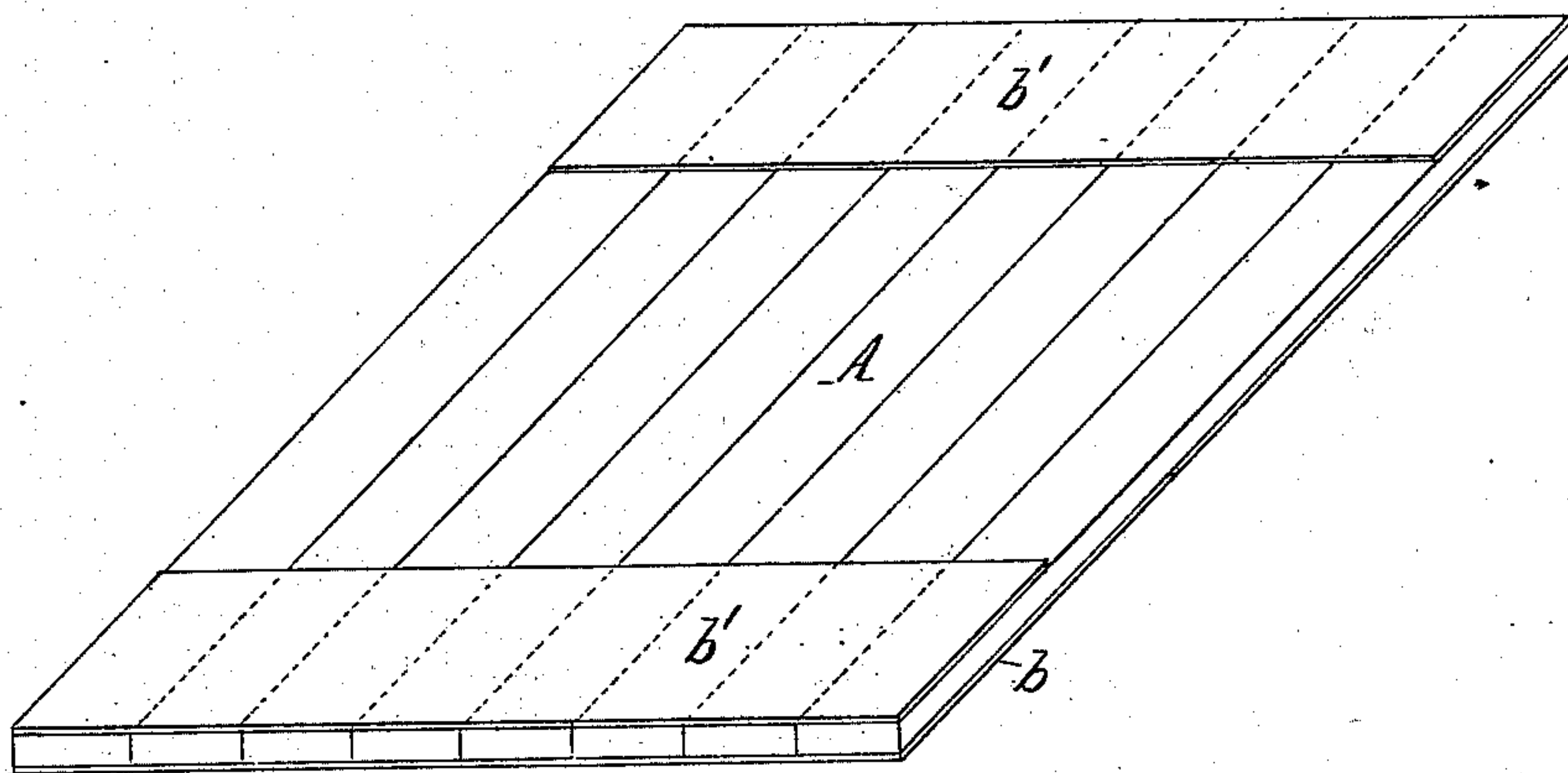


Fig. 3.



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BACK FOR PICTURE AND OTHER FRAMES.

SPECIFICATION forming part of Letters Patent No. 274,737, dated March 27, 1883.

Application filed March 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, LORENZ A. DEUTHER, of the city of Buffalo, in the county of Erie and State of New York, have invented new and useful Improvements in Backs for Picture and other Frames, of which the following is a specification.

The object of this invention is to produce a strong, light, and durable back-plate for picture-frames, mirror-frames, and other like frames, which is rigid or inflexible, and not liable to bulge, warp, or crack.

My present invention is an improvement on a back for frames which is secured to me by Letters Patent of the United States No. 226,391, dated April 13, 1880, to which reference is here made for a full description thereof. In the back referred to parallel strips are separated by short blocks placed between the strips. This construction, although very serviceable for many purposes, is open to the objection that spaces or recesses are formed between the strips, which render the surface of the plate uneven if they are not filled with some hard material.

The object of the present invention is to overcome this difficulty; and my invention consists of the particular construction of the back hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of my improved back-plate, with two corners of the sheets of paper, between which the strips are secured, turned away from the strips. Fig. 2 is a fragmentary cross-section of the back-plate on an enlarged scale. Fig. 3 shows a modified construction of the plate.

Like letters of reference refer to like parts in the several figures.

The body of the back-plate is composed of a number of strips or flat bars, A, made of wood or similar material, all of equal length and placed side by side. These bars or strips are secured between two sheets of paper, *bb*, which are firmly glued or cemented to the strips A. In constructing my improved back-plate a number of strips A, sufficient to form a back-plate of the desired size, are placed upon a table side by side, their contiguous edges being straight, so that the strips fit snugly one

against the other. A sheet of paper of sufficient size to cover the series of strips is then covered with glue or other liquid cement, whereby the paper is expanded or distended. The sheet of paper so prepared is then placed upon the strips A and firmly secured thereto by the glue or cement. The strips A, with the sheet of paper adhering to their upper sides, are then turned over, when a sheet of paper, similarly covered with glue or cement and distended, is secured to the exposed sides of the series of strips. As the sheets of paper become dry they contract and draw the strips A firmly against each other, thereby producing a close fit of the several strips against each other. As paper is applied to both sides of the strips A, the same compressive strain is applied on both sides of the plate, and the warping of the same is prevented. If desired, strips of paper *b'*, running across the strips A, may be substituted for one of the sheets of paper *b*, as represented in Fig. 3. When the plate is so constructed the side to which these strips are applied is placed against the picture, so that the side of the plate which is entirely covered with paper is exposed. When the plate has become sufficiently dry it is coated with a suitable varnish or paint which excludes moisture, thereby still further guarding against warping or bulging of the plate.

The improved plate produced in this manner is light, strong, and inflexible. It is sufficiently durable for the purpose for which it is intended. It will not change its form when exposed to the influence of moisture. It is of the same thickness and composed of the same material throughout, so that it can be secured to a frame at all points along its edges, and it is produced at comparatively small expense.

The paper with which my improved back-plate is covered prevents the rosin and other similar substances contained in the wood from staining the picture to which the back is applied, which occurs frequently when ordinary backs are applied to frames containing steel engravings or similar fine pictures.

The herein-described improved back, if constructed of strips of wood of suitable thickness, is also well adapted for use as the back of bellows in organs.

I claim as my invention—

1. A back for picture or other frames, composed of parallel strips A, of wood or other rigid material, of equal length; and two sheets
5 or strips of paper, b, glued or cemented to opposite sides of the strips A, whereby the strips are firmly connected and drawn against each other, the whole forming a light and inflexible plate of uniform thickness throughout, substantially as set forth.
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2. A back-plate for picture or other frames,

composed of parallel strips A, of wood or other rigid material, of equal length, arranged side by side and glued or cemented between two sheets of paper, the plate being coated with
15 suitable varnish or paint, substantially as set forth.

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