

(No Model.)

J. F. FISCHER.

MANUFACTURE OF PAPER FRAMES FOR SLATES, &c.

No. 483,648.

Patented Oct. 4, 1892.

Fig. 6.

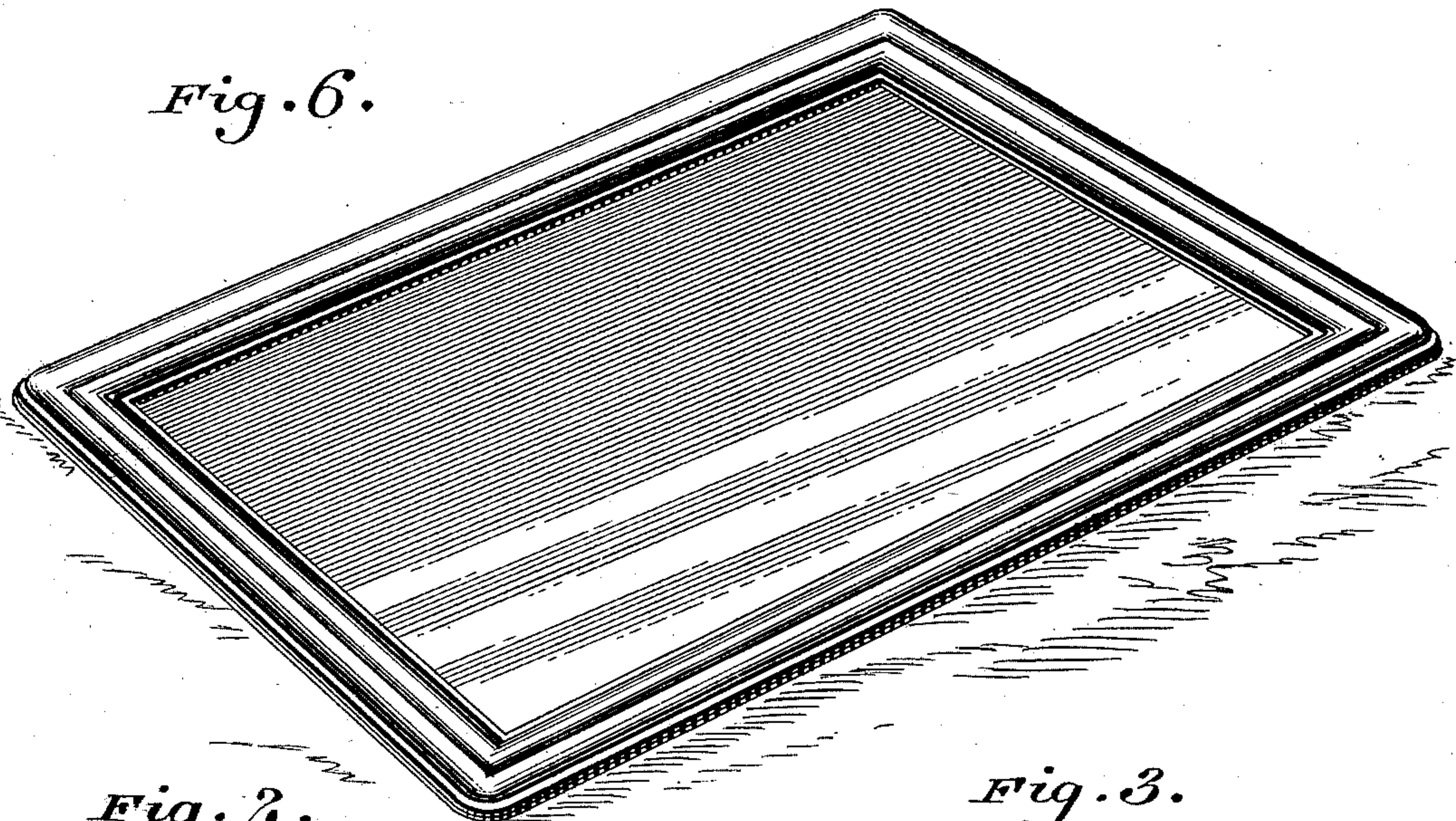


Fig. 2.

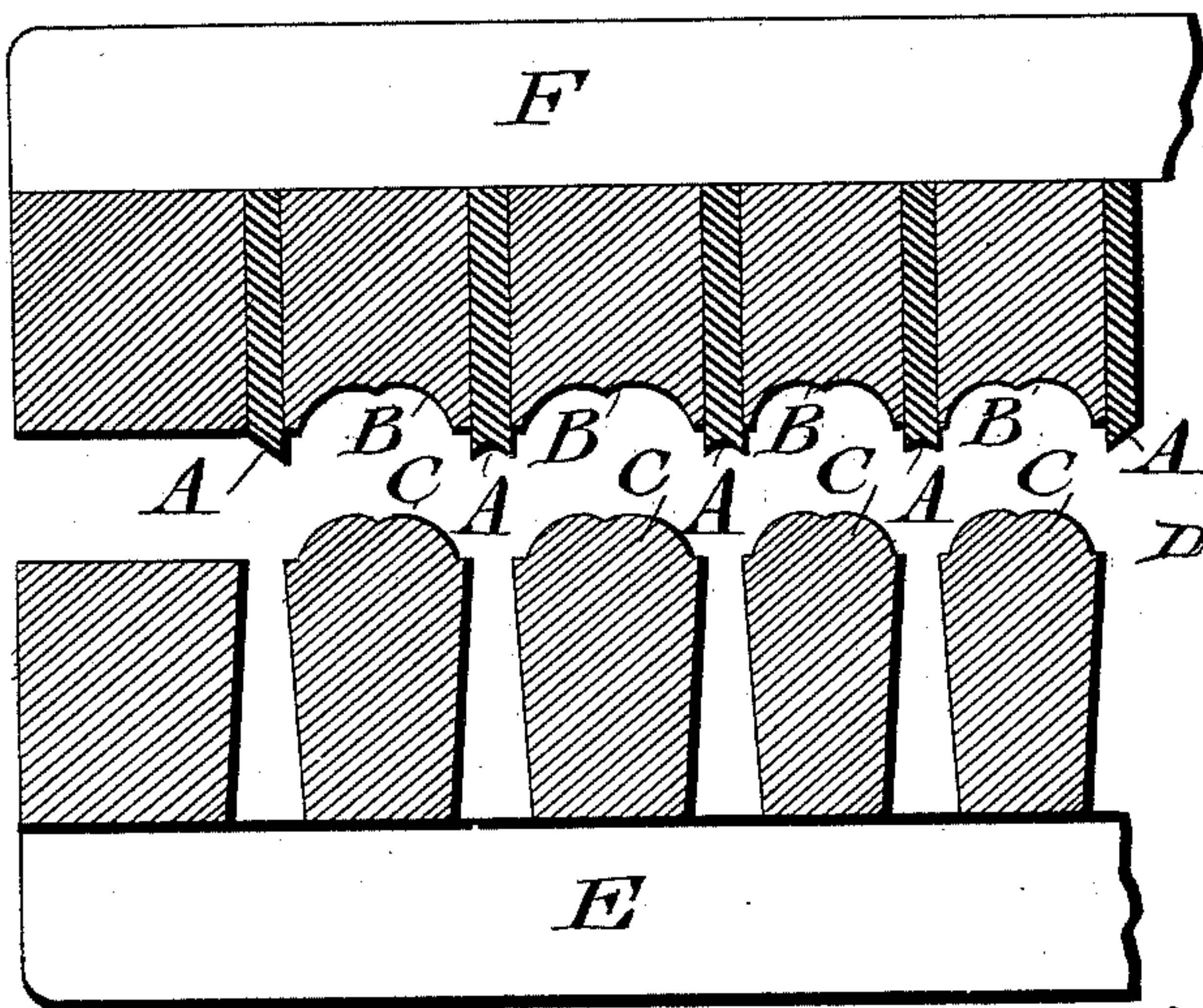


Fig. 3.

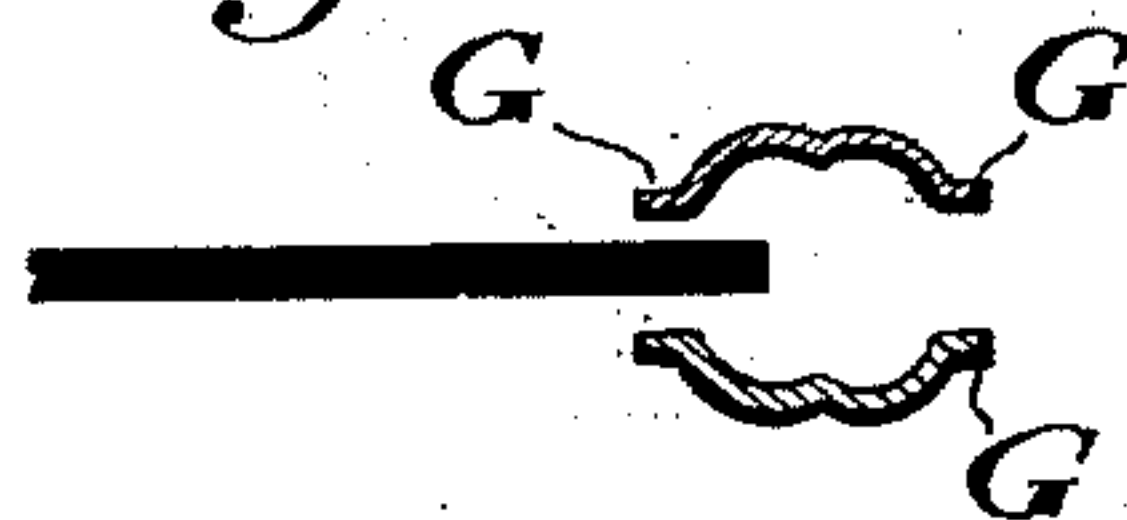


Fig. 4.

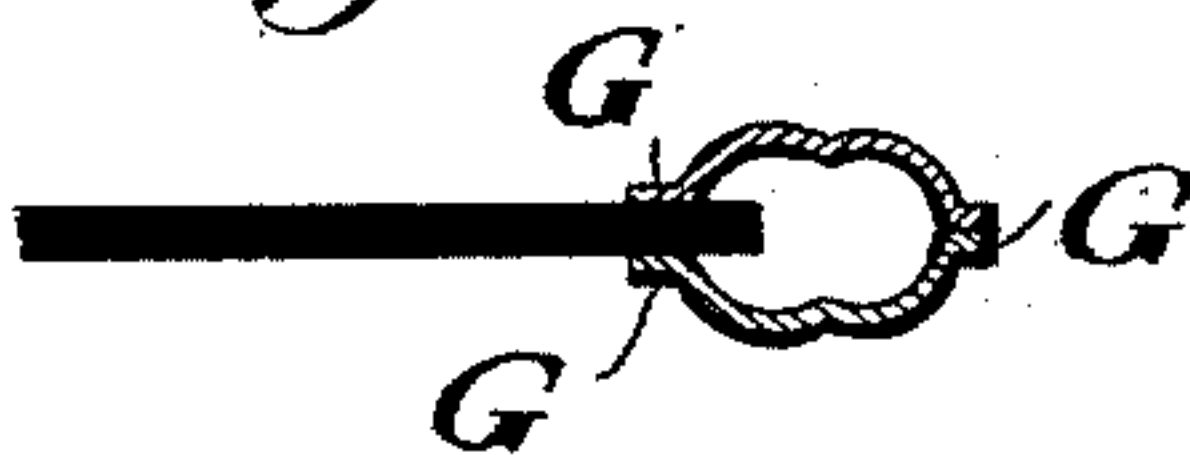


Fig. 5.

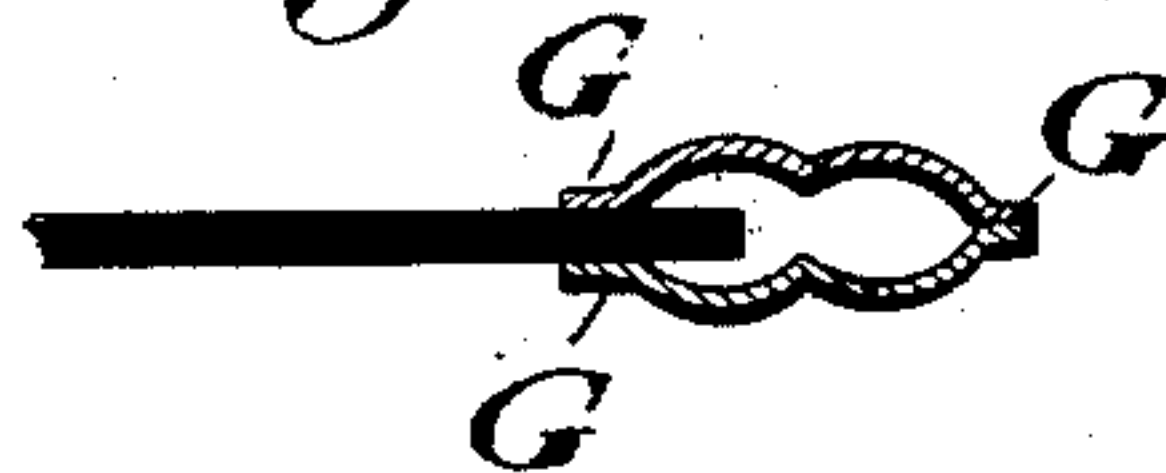
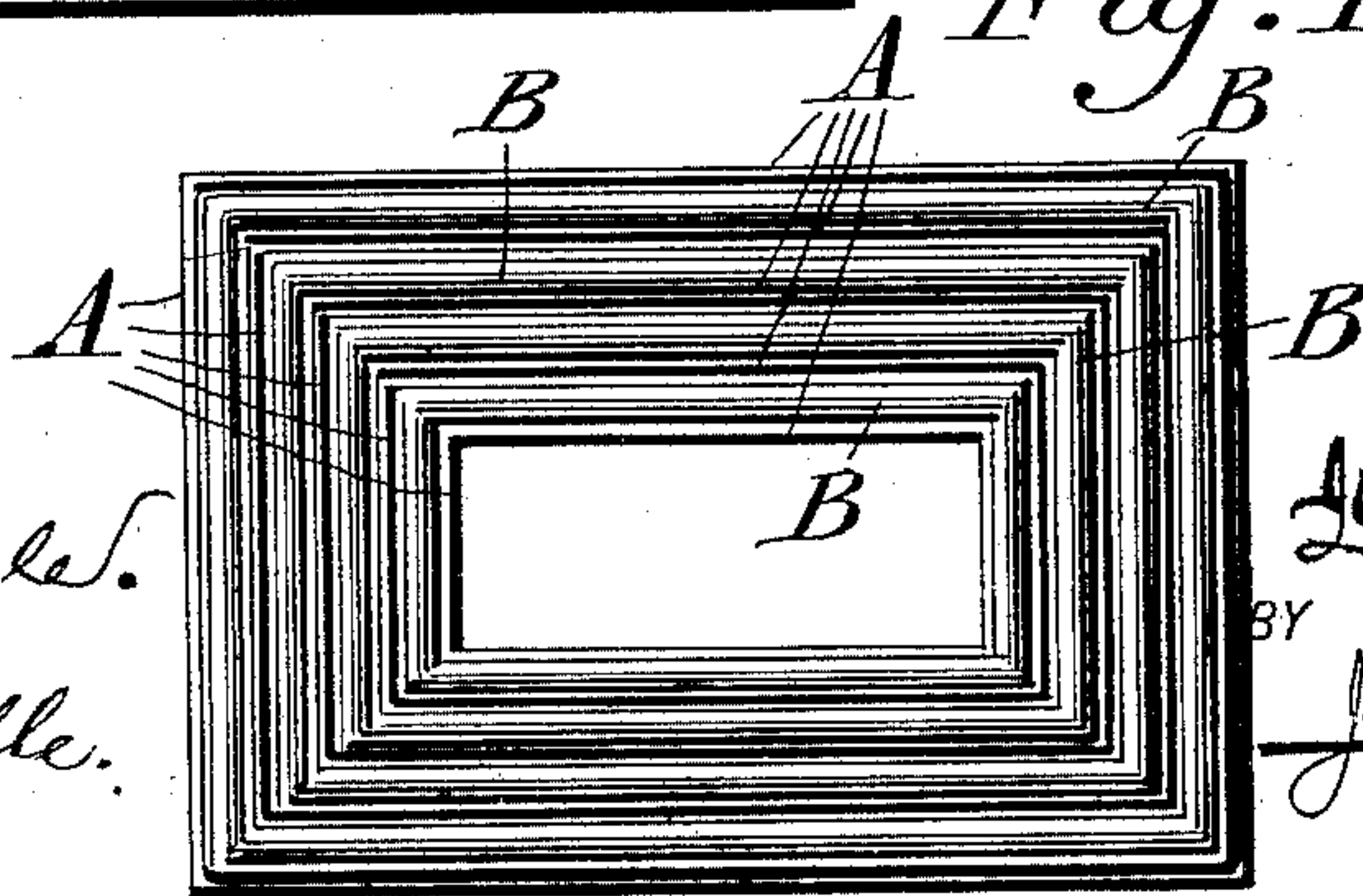


Fig. 1.



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## MANUFACTURE OF PAPER FRAMES FOR SLATES, &c.

SPECIFICATION forming part of Letters Patent No. 483,648, dated October 4, 1892.

Application filed February 23, 1892. Serial No. 422,543. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN FRIEDRICH FISCHER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in the Manufacture of Paper Frames for Slates, &c., which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of means, substantially as described, for simultaneously cutting, striking up, and embossing the paper frames of slates, pictures, &c.

Figure 1 represents a bottom plan view of the cutting, striking-up, and embossing apparatus employed in the manufacture of frames embodying my invention. Fig. 2 represents a horizontal section thereof on an enlarged scale. Figs. 3, 4, and 5 represent sections of different shapes of frames. Fig. 6 represents a perspective view of a slate having a frame manufactured in accordance with my invention.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates the upper cutters, and B designates the upper striking-up and embossing dies, of the apparatus employed by me, said cutters and dies being placed side by side and alternating.

C designates the lower striking-up and embossing dies, at the sides of the working faces of which are cutters D. The lower dies are properly supported on the base E, and the upper dies and cutters are connected with the head F, to which rising and falling motions are imparted by any suitable means.

The cutters and dies are of the form of frames of different sizes and placed one within the other or nested, as will be seen in Fig. 1. Paper, pasteboard, or paper-stock of suitable nature is placed between the upper and lower parts, and when the same close the paper is cut through the shape of a slate-frame and simultaneously embossed and made semi-tubular or struck up, it being seen that the frames produced are of different sizes, and they are in condition to be colored, shel-lacked, or otherwise coated and finished. The slate is placed between two sections of a frame, and the rims G thereof are glued or otherwise cemented to each other and to the slate, thus producing a superior frame, the same being strong, light, durable, and inexpensive. The cutters A of the head are adapted to pass between the dies C of the base when the said head is lowered, being in contact with the cutters D, formed on the edge of the said dies C.

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

A device for the purpose named, consisting of the head F and the base E, the dies C, secured to the base E and having the cutters D on the edges, and the dies B, secured to the head F and having the cutters A between them, said cutters A being adapted to pass between the dies C, said parts being combined substantially as described.

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