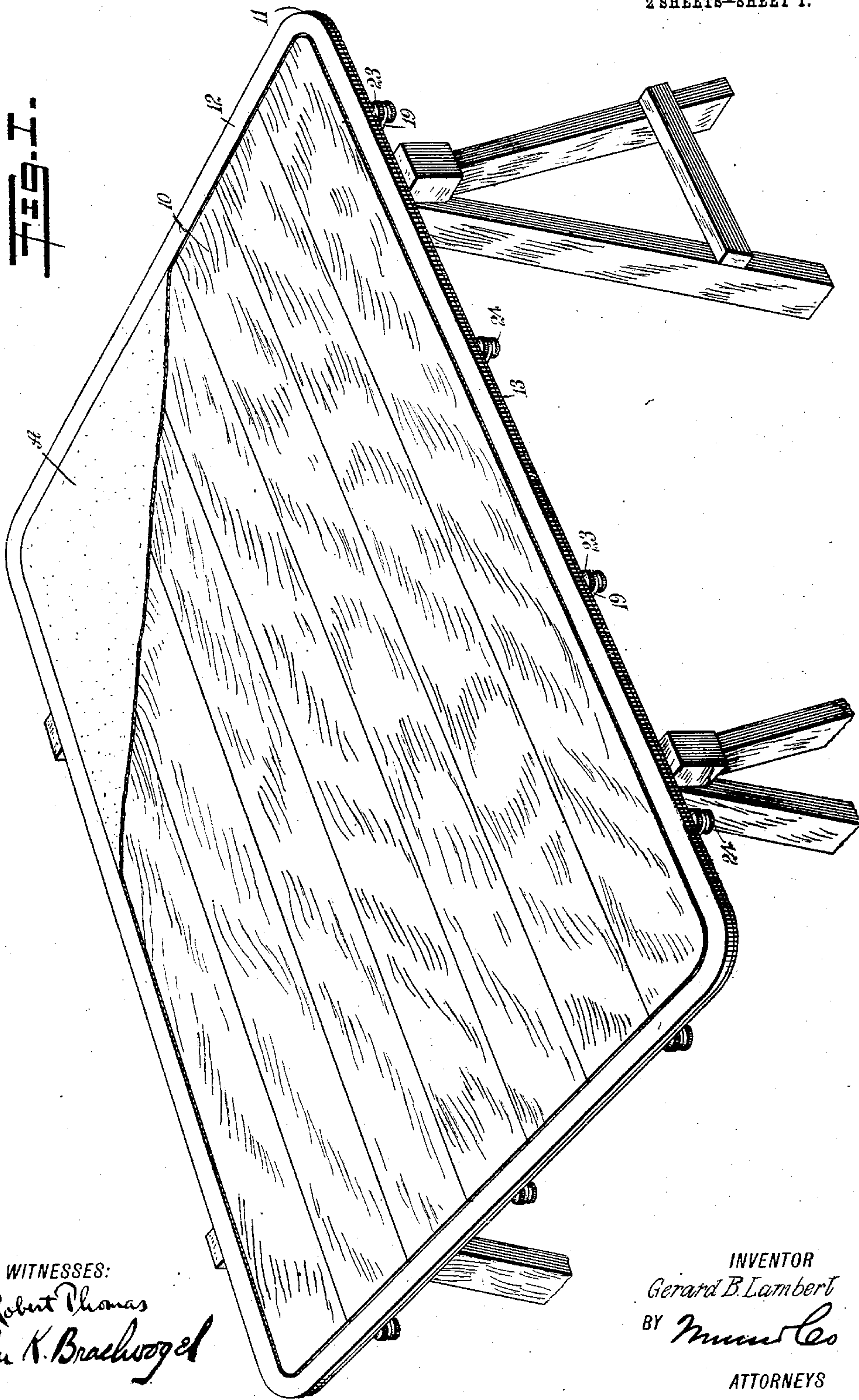


G. B. LAMBERT.  
DRAWING BOARD.  
APPLICATION FILED JAN. 5, 1910.

969,638.

Patented Sept. 6, 1910.

2 SHEETS—SHEET 1.



WITNESSES:  
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John K. Braehvogel

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Gerard B. Lambert  
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2 SHEETS—SHEET 2.

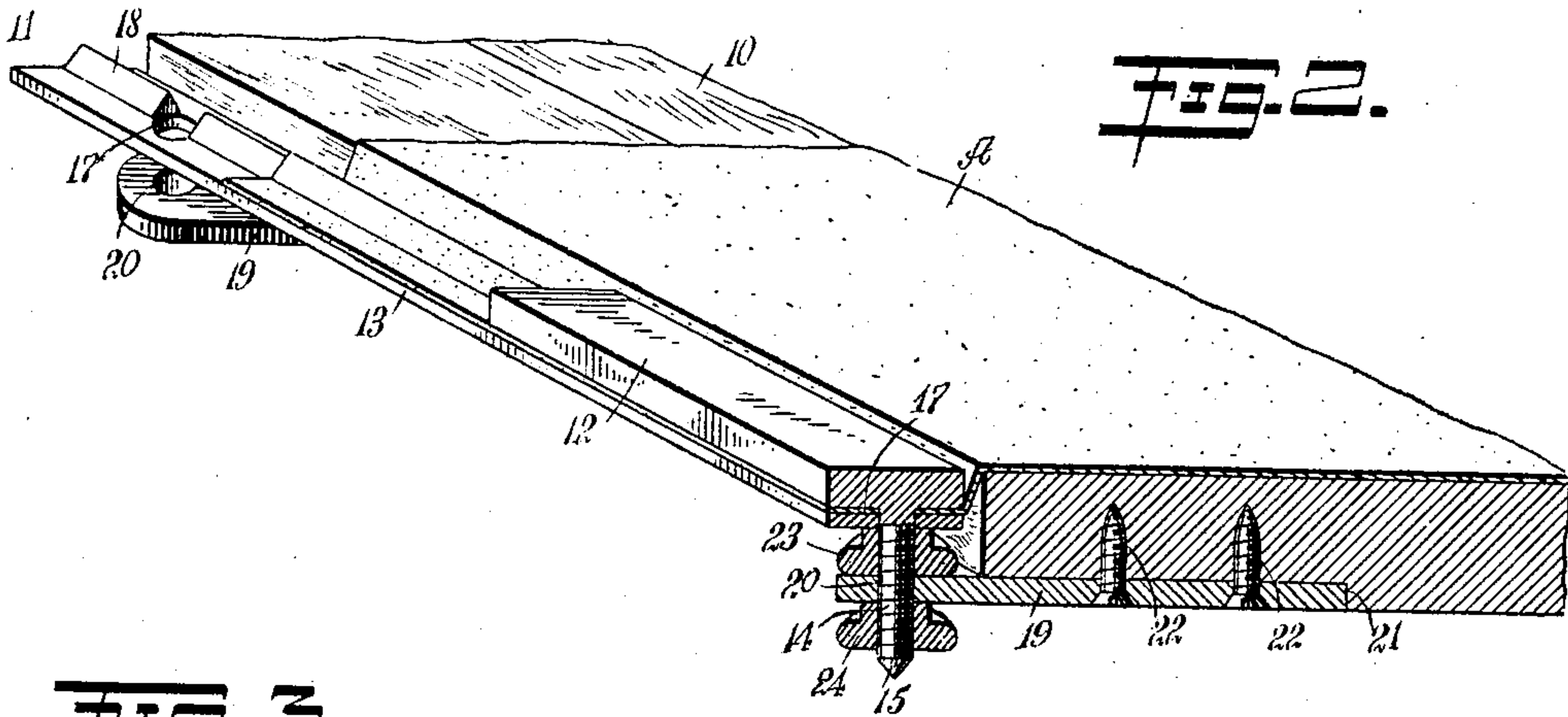


FIG. 3.

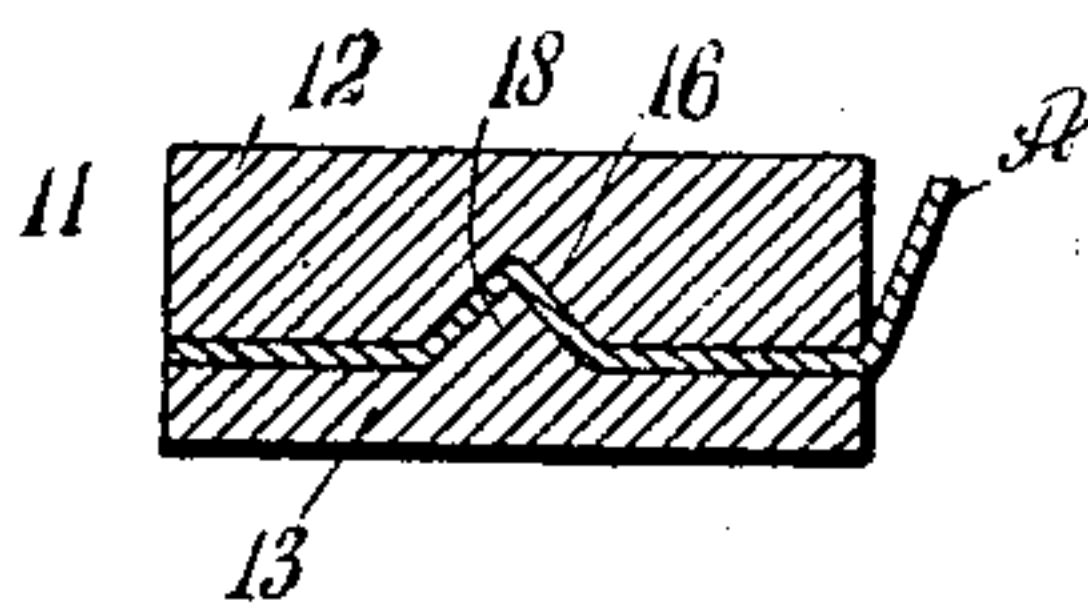


FIG. 4.

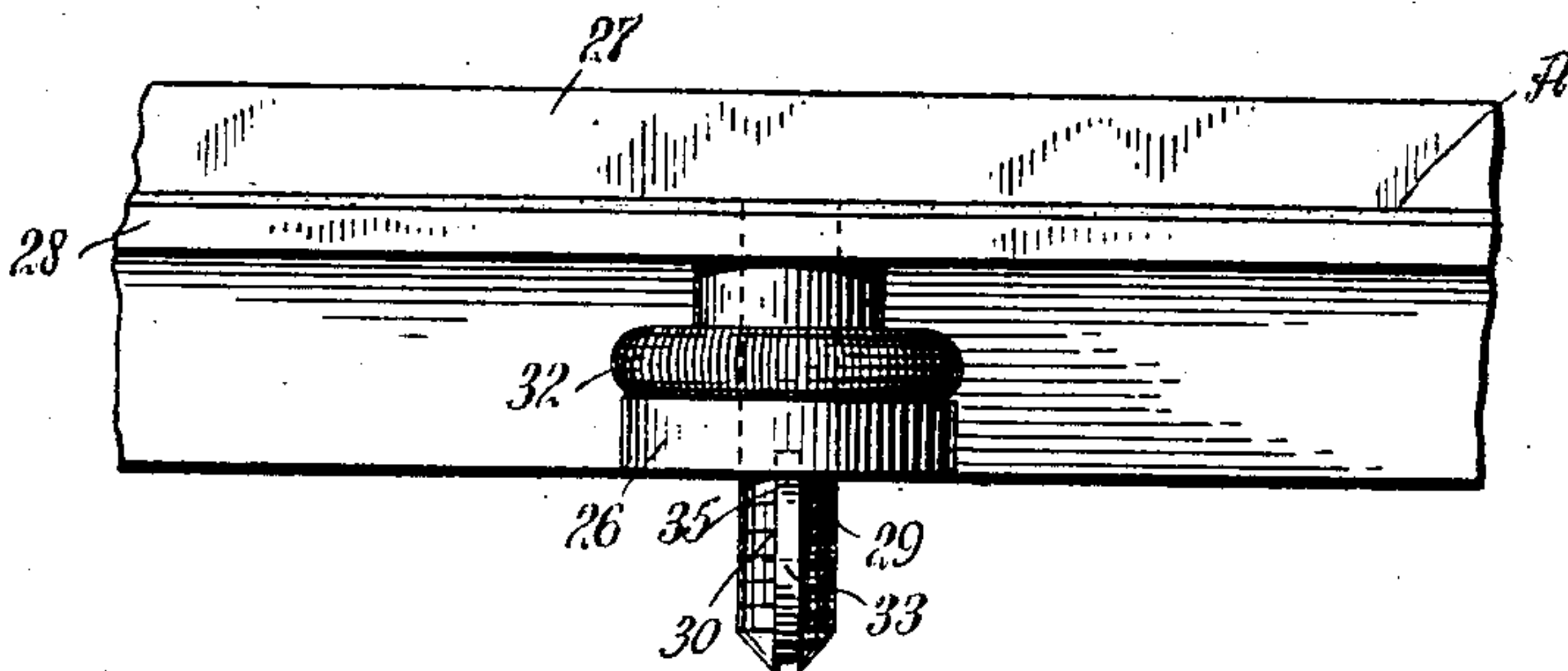
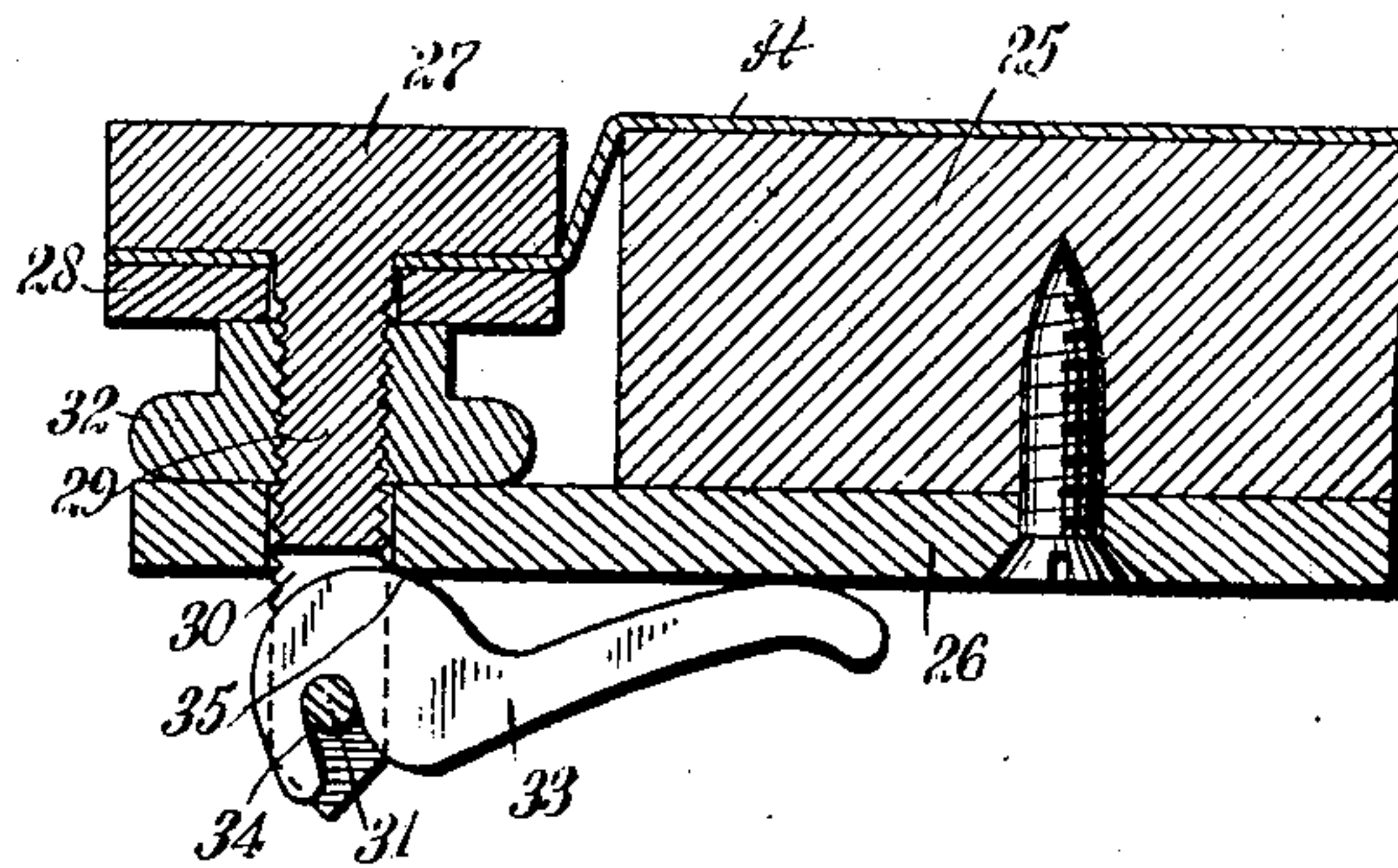


FIG. 5.

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# UNITED STATES PATENT OFFICE.

GERARD BARNES LAMBERT, OF NEW YORK, N. Y.

## DRAWING-BOARD.

969,638.

Specification of Letters Patent.

Patented Sept. 6, 1910.

Application filed January 5, 1910. Serial No. 536,447.

*To all whom it may concern:*

Be it known that I, GERARD BARNES LAMBERT, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Drawing-Board, of which the following is a full, clear, and exact description.

This invention relates to drawing boards for use by architectural and other draftsmen, and has reference more particularly to a device of this class comprising a body, and a frame associated with the body and formed to grip and hold a sheet of paper extending over the body, the frame being operable to stretch the paper, if so desired.

The object of the invention is to provide a simple, strong and durable drawing board which can be manufactured in different sizes, which is inexpensive to produce, and compact in form, which includes means for gripping and holding the paper stretched upon the body of the board, securely, and without danger of tearing the paper, which can be easily and expeditiously manipulated to stretch the paper to various degrees, and which obviates the necessity of gluing or otherwise fastening the paper to a board, to allow the moistened paper to stretch properly when drying.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a perspective view of an embodiment of my invention showing a part of a sheet of paper stretched thereon; Fig. 2 is a fragmentary, perspective view of the board, having parts in section; Fig. 3 is a transverse section of the frame; Fig. 4 is an enlarged fragmentary section showing details of modified form; and Fig. 5 is a side elevation of a part of the board, showing the details of modified form.

Before proceeding to a more detailed explanation of my invention, it should be clearly understood that while the board is particularly useful in the making of architectural drawings, it can also be used for other purposes in which it is desirable to

stretch the paper upon which drawings are to be made, tightly and smoothly upon a board. In architectural work it is customary to glue the sheets of paper along the edges upon boards, so that the sheets, which are first moistened, can stretch tightly in drying. This method, while enabling the draftsman to stretch the sheets as smoothly as necessary, has certain disadvantages. These consist principally in the difficulty of properly gluing the sheets upon the boards, and in afterward removing those portions of the paper which adhere to the boards. It will be understood that when the drawings are finished the sheets are cut inside of the glued edges, to permit their removal.

My invention provides means for not only securely gripping and holding the paper while it is stretching when drying, but the frame itself can be manipulated to assist in the stretching process.

Certain of the details of construction form no part of the invention, and can be varied in accordance with special conditions and individual preference, without departing from the underlying spirit of the invention.

Referring more particularly to the drawings, I have shown for example, a board having a body or board proper 10, fashioned from wood or any other material, in the customary manner, and presenting a smooth and flat upper surface over which the sheets of drawing paper are stretched. The board can be positioned upon a table, or, as illustrated, upon supporting horses. I employ a frame 11, preferably encompassing the body 10 of the board and conforming to the shape thereof, being spaced slightly from the edges as is shown most clearly in Figs. 2 and 4. The frame is fashioned from metal or any other material adapted for the purpose, and comprises an upper member 12 and an under member 13. If so desired, as is shown in Fig. 1, the corners of the body 10 and the frame 11 may be rounded.

The upper member 12 of the frame, at suitable intervals has downwardly extending threaded studs 14, the extremities of which are tapered. Extending around the member 12, at the under side thereof, and substantially central with respect thereto, is a groove 16, preferably inclined or V-shaped in cross section, and adapted to receive a correspondingly formed rib 18, of the lower



frame member 13. The groove 16 and the rib 18 it will be understood, are interrupted at the studs 14, as is shown most clearly in Fig. 2. The grooves and the rib are preferably sharp-edged, and thus serve to grip securely between them the edges of a sheet of paper A, and hold the paper firmly against dislodgment, though without injury to the paper. The frame member 13 has an opening 17, to receive the studs 14.

Spaced suitable distances apart, the body 10 has laterally extending brackets or arms 19, each provided with an opening 20 adapted to receive one of the studs 14. It will be understood that the brackets are separated distances corresponding to the distances between the studs. The brackets consist preferably, of flat bars secured in convenient recesses 21, formed at the under side of the body, by means of screws 22, or the like. Thumb nuts 23, are removably screwed upon the studs 14 and serve to clamp the frame members 12 and 13 firmly together to hold the paper. When the frame is in position, the thumb nuts 23 rest upon the upper faces of the projecting ends of the brackets 19. Similar thumb-nuts 24, are screwed upon the lower ends of the studs 14 and engage at the under sides of the brackets, to hold the frame adjustably in place about the body of the board.

When it is desired to stretch a sheet of paper upon the board, the frame is removed and the upper member 12 is inverted and the paper placed upon it, so that by pressing gently downward upon the paper, the studs can be forced through it, to position the paper with respect to the frame. When the studs have been forced through the paper, the lower frame member 13 is slipped upon the studs and the frame members are then secured together by means of the thumb-nuts 23. The frame is then reversed and the studs are passed through the openings in the brackets. The thumb-nuts 24 are then screwed upon the lower extremities of the studs to fasten the frame in place and to stretch the paper across the body of the board. It will be understood that by suitably adjusting the nuts 23 and 24, the paper can be stretched when moistened. If so desired, however, after the frame is in place, the paper can be moistened and in drying will stretch still farther.

In Figs. 4 and 5, I have shown a modified form of my invention, in which the body 25, of the board has brackets 26 similar to the brackets 19. The frame members 27 and 28, correspond to the frame members 12 and 13, but the frame member 27 has threaded studs 29, provided near the lower ends with longitudinal slots 30, having transverse bearing pins 31. Thumb-nuts 32, are used to clamp the frame members 27 and 28 together. These, it will be understood, are

provided respectively, with a groove and a rib, corresponding to the elements 16 and 18 of the frame members of the preferred form. Cam levers 33, having recesses 34, are removably mounted in the slots 30 of the studs 29, and engage the bearing pins 31, so that the cam levers can be pivotally manipulated to permit the cam edges 35 to bear against the under sides of the brackets. By swinging the cam levers inwardly into the position indicated in Fig. 4, they will bind at the brackets and serve to draw the frame downward against the brackets, so that it can be securely held in place. By swinging the cam levers outward and removing them from the slots, the frame can be easily released.

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

1. A drawing board, comprising a body, a frame encompassing said body and consisting of separable and removable members formed to grip portions of a sheet of paper between them, and means for adjustably securing said members to said body and including manually operable members, whereby said frame can be moved bodily to stretch the paper.

2. A drawing board, comprising a body, a removable frame encompassing said body and comprising an upper and a lower member, said members having means for gripping therebetween and holding a sheet of paper, clamping screws for securing said members together, and brackets for securing said frame adjustably to said board at a plurality of points.

3. A drawing board, comprising a body, a removable frame encompassing said body and comprising an upper member and a lower member, one of said members having a V-shaped groove extending longitudinally thereof, the other of said members having a V-shaped rib extending longitudinally thereof and adapted to be received by said groove, said members serving to grip and hold a sheet of paper therebetween, means for clamping said members together, and means for securing said frame to said body adjustably whereby said frame is operable to stretch the paper.

4. A drawing board, comprising a body, a frame encompassing said body and comprising an upper member and a lower member, one of said members having a V-shaped groove extending longitudinally thereof, the other of said members having a V-shaped rib extending longitudinally thereof and adapted to be received by said groove, said members serving to grip and hold a sheet of paper therebetween, one of said members having openings, the other of said members having threaded studs removably received by said openings, thumb-nuts mounted upon



said studs for clamping said members together, and means for securing said frame to said board.

5 A drawing board, comprising a body, a frame encompassing said body and comprising an upper member and a lower member, one of said members having a V-shaped groove extending longitudinally thereof, the other of said members having a V-shaped  
10 rib extending longitudinally thereof and adapted to be received by said groove, said members serving to grip and hold a sheet of paper therebetween, one of said members having openings, the other of said members  
15 having threaded studs removably received

by said openings, thumb-nuts mounted upon said studs for clamping said members together, said board having a plurality of brackets provided with openings adapted to receive said studs, and further thumb-nuts 20 mounted upon said studs and adapted to secure said frame at said brackets.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GERARD BARNES LAMBERT.

Witnesses:

RACHEL L. LAMBERT,  
SARA MILORE.