

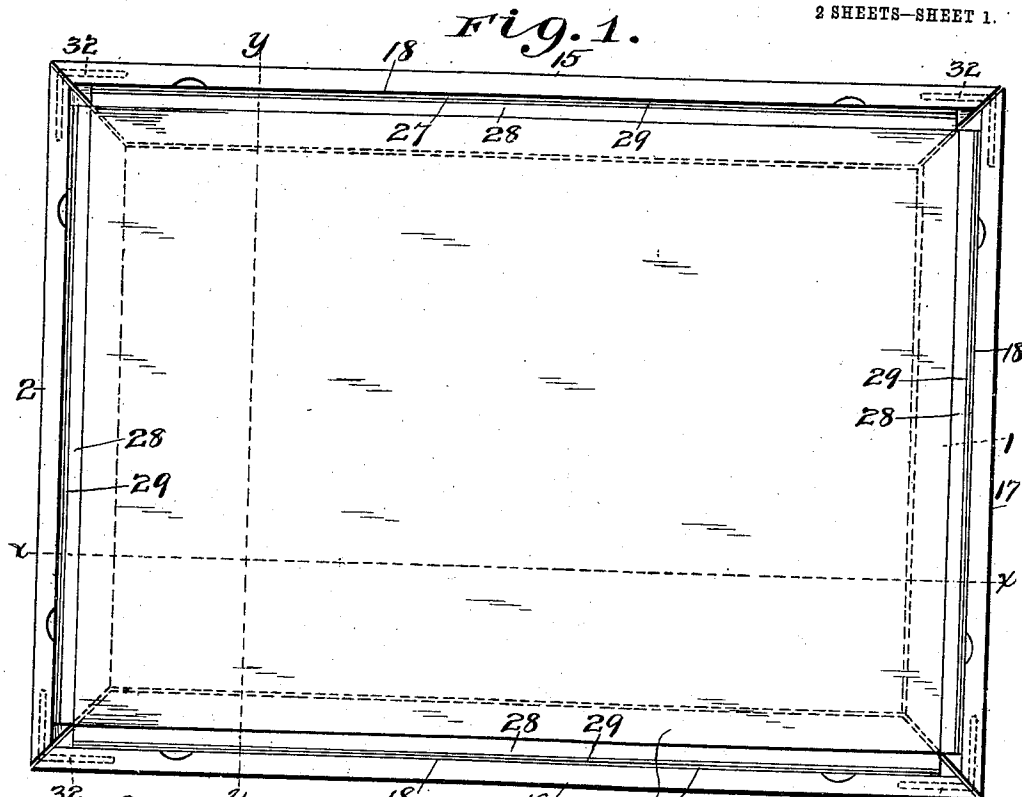
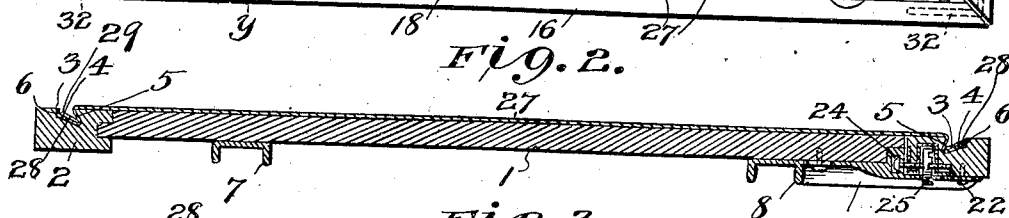
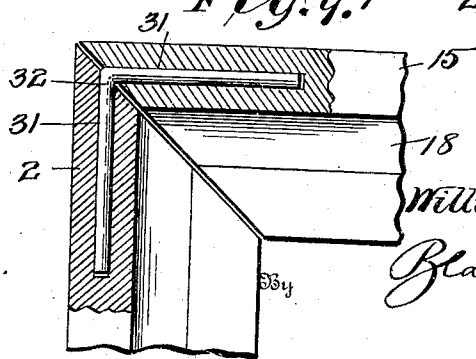
No. 889,072.

PATENTED MAY 26, 1908.

W. F. WAGNER.
DRAWING BOARD.

APPLICATION FILED JAN. 5, 1907. RENEWED OCT. 14, 1907.

2 SHEETS—SHEET 1.



Witnesses

R. N. Oranney.
W. C. Blackwood.

Inventor
William F. Wagner
Blackwood Bros.

his Attorneys

No. 889,072.

PATENTED MAY 26, 1908.

W. F. WAGNER.
DRAWING BOARD.

APPLICATION FILED JAN. 5, 1907. RENEWED OCT. 14, 1907.

2 SHEETS—SHEET 2.

Fig. 4.

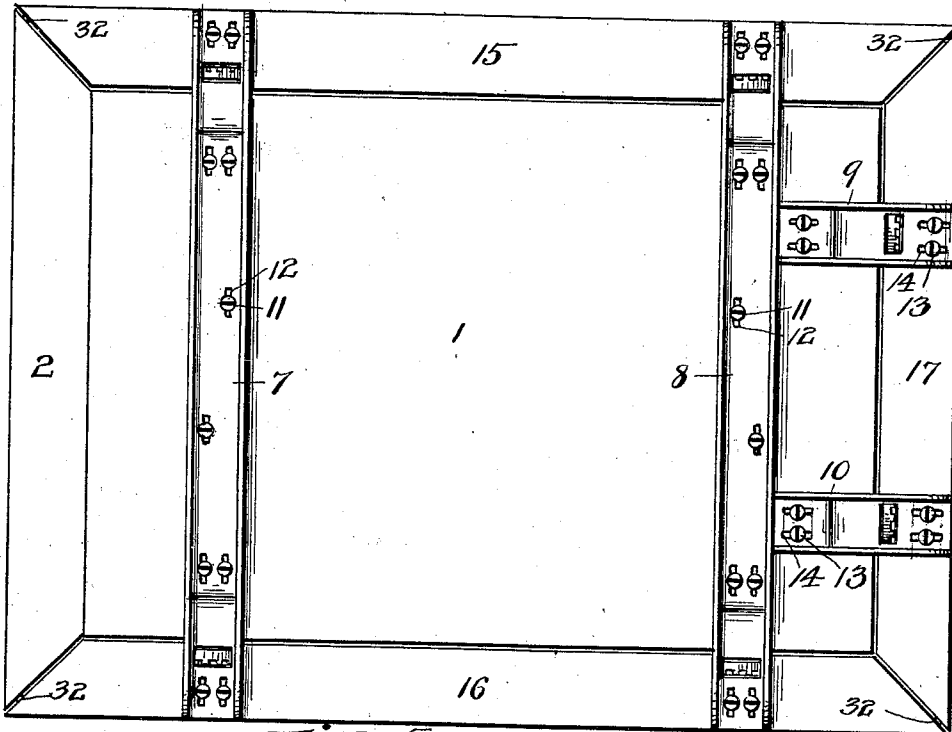


Fig. 5.

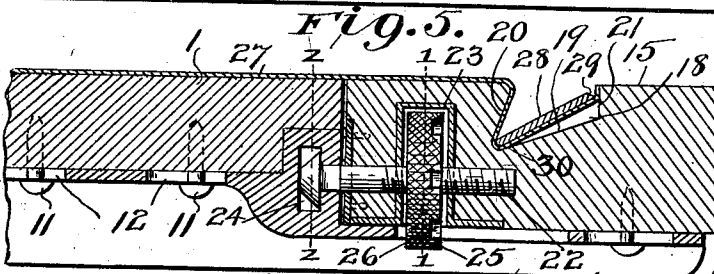


Fig. 8.

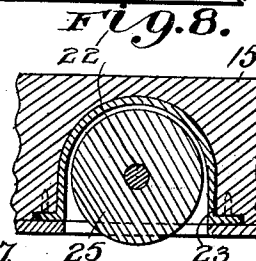


Fig. 6.

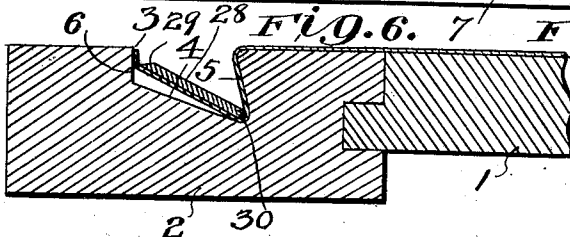
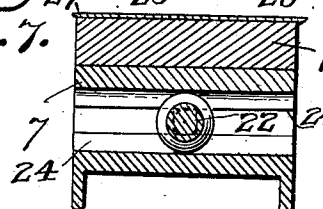


Fig. 7.



Inventor

William F. Wagner

Witnesses

R. N. Warren
W. O. Blackwood

By

Blackwood Bros.

his Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM FRANKLIN WAGNER, OF WASHINGTON, DISTRICT OF COLUMBIA.

DRAWING-BOARD.

No. 889,072.

Specification of Letters Patent.

Patented May 26, 1908.

Application filed January 5, 1907, Serial No. 351,005. Renewed October 14, 1907. Serial No. 397,390.

To all whom it may concern:

Be it known that I, WILLIAM FRANKLIN WAGNER, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Drawing-Boards, of which the following is a specification.

My invention relates to improvements in drawing boards and more particularly to that class of drawing boards used by architects, engineers, draftsmen and artists who require the material on which they work to be stretched and held very tightly and smoothly.

The object of the invention is to provide a drawing board on which any thickness or quality of paper or other material can be quickly applied without gluing, tacking or otherwise permanently securing the same.

It also has for its object to provide a drawing board on which paper can be readily applied and stretched, without wetting, to any desired tension and after being applied and stretched any looseness or wrinkles caused by the shrinkage or expansion of the paper can be completely eliminated.

It further has for its object to provide means whereby paper may be applied or removed from the drawing board as often as desired so that if a drawing is commenced and it is desirable for any purpose to remove it for a time before completing the same it can be easily and quickly removed and then applied again at any future time without in the slightest degree affecting the drawing.

It still further has for its object to provide a drawing board which will not be affected by shrinkage and which can be manipulated to adjust the T square thereon to any line or lines desired, which sometimes becomes necessary when replacing a drawing thereon to be completed and the drawing has not been applied thereon exactly as it was in the first instance.

Referring to the drawings:— Figure 1, is a top plan view, Fig. 2, a longitudinal sectional view on the line $x-x$ of Fig. 1. Fig. 3, a cross sectional view on the line $y-y$ of Fig. 1. Fig. 4, a bottom plan view. Fig. 5, a sectional view of the end of one of the cleats. Fig. 6, a sectional view of the stationary edge of the board. Fig. 7, a sectional view on the line $z-z$ of Fig. 5. Fig. 8, a sectional view on the line $l-l$ of Fig. 5. Fig. 9, a detail sectional view of one of the corners of the board.

In the drawings in which like numerals of reference denote like parts throughout the

several views, 1, represents the body or main portion of the drawing board which is provided at one side, preferably the left side for the convenience of having a rigid surface for the use of a T-square, with a stationary edge 2, having a longitudinal slot 3, in its upper surface, said slot being provided with an inclined bottom 4, an undercut or inwardly slanting side wall 5, and a straight vertical wall 6.

The drawing board is provided with cleats 7, 8, 9, & 10. Cleats 7 & 8 are secured to the body of the drawing board by means of screw bolts 11, which pass through elongated slots 12, in said cleats and into the body of drawing board and said cleats extend beyond the side of the drawing board. Cleats 9, and 10 are secured to the body of the drawing board by means of screw bolts 13, which pass through elongated slots 14, in said cleats into the drawing board and said cleats also extend beyond the side of the drawing board. Three extensible edges 15, 16, & 17 are provided each being the counterpart of the other, the edges 13 & 16 being mounted on and designed to be slid on the projecting ends of the cleats 7 & 8, and the edge 17, is mounted on and is designed to be slid on the projecting ends of the cleats 9 & 10. Each of the said extensible edges is provided with a longitudinal slot 18, in its upper surface having an inclined bottom, 19, an inwardly slanting or undercut side wall 20, and a straight vertical side wall 21. The extensible edges are also provided with screw bolts 22, which pass through casings 23, and their heads are mounted in laterally extending elongated slots 24, formed in the several cleats and the squared portions adjacent said heads are mounted in slots 24^a also formed in the several cleats, 25, being screw thumb nuts which are mounted and are designed to travel on the screw bolts 22, and adjust the extensible edges inward and outward from the body of the drawing board. The screw thumb nuts 25, project slightly below the under surface of the cleats so that they may be readily grasped by the fingers and turned to adjust the extensible edges. Said thumb nuts are also provided with holes 26, in which a nail or other instrument may be inserted to turn them if for any reason it is found that they do not work freely enough with the fingers. 27, is a piece of paper or other drawing material which is securely clamped in the slot 3, of the edge 2, and the slots 18, of the

extensible edges 15, 16 & 17, by means of clamping strips 28.

The clamping strips are preferably made of nicked spring steel, but they may be made of any suitable material, and each of said strips is provided with a beveled edge 29, and a rounded edge 30. The width of the clamping strips and the thickness of the drawing material inserted thereunder together being greater than the width of the slots causes the rounded edges of the clamping strips to clamp the drawing material in the lower corner of the slots of the edges and the beveled edges to clamp the said material against the vertical side walls of the slots so that the more tension that is put on the drawing material or the tighter it is stretched the tighter it will be held in the slots, in fact it will be impossible to pull it out without destroying or mutilating the same. The stationary and extensible edges of the drawing board are each provided with holes 31, in which are inserted angular corner guides 32, by means of which the corners of the several edges are kept at the proper angle to each other.

To apply a piece of drawing material to the drawing board lay a sheet of the proper size thereon and fit or press the edges into the grooves with the fingers, insert the clamping strips into the grooves, with their rounded edges downward, then force the beveled edges downward until the drawing material is firmly clamped between said beveled edges and the vertical side walls of the cleats, then turn the screw thumb nuts until the drawing material is drawn or stretched to the desired tension. It is preferable to first adjust the expansible edge which is opposite the stationary edge so as to stretch the drawing material lengthwise of the board first and then adjust the other extensible edges and stretch it across the board by which means the tension on the drawing material will be equally distributed from the center of the board.

To remove the drawing material from the board release the thumb screw nuts, which releases the tension, and remove the clamping strips, when the drawing material will be free to be taken off. In case the clamping strips should bind for any reason they can be easily removed by inserting the end of a steel point or other instrument in the grooves and under the edges of the clamping strips.

I do not desire to be understood as limiting myself to the specific details of construction and arrangement as herein described and illustrated, as it is manifest that variations and modifications may be made in the features of construction and arrangement, on the adaptation of the device to various conditions of use without departing from the spirit and scope of my invention and improvements. I therefore reserve the right to all such variations and modifications as

properly fall within the scope of my invention and the terms of the following claims.

What I claim is:—

1. A drawing board provided with extensible edges each having a slot and a paper clamping strip, the width of the lower portion of said strip and the thickness of the paper inserted thereunder together being greater than the width of the bottom of the slot, substantially as described.

2. A drawing board provided with extensible edges each having a slot and a paper clamping strip seated obliquely in said slot, the width of the lower portion of said strip and the thickness of the paper inserted thereunder together being greater than the width of the bottom of the slot, substantially as described.

3. A drawing board provided with extensible edges each having a slot and a paper clamping strip of such width that when the paper is inserted thereunder said strip will engage the wall of the slot and clamp the paper against said wall at an angle to the bottom of the slot, substantially as described.

4. A drawing board provided with extensible edges each having a slot, means for adjusting the extensible edges, connected to the board and the lower portion of said edges, and a paper clamping strip, the width of said strip and the thickness of the paper inserted thereunder together being greater than the width of the bottom of said slot, substantially as described.

5. A drawing board provided with laterally extended supports formed integral with the cleats thereof, extensible edges supported by said supports, means for guiding said edges on said supports comprising slots in the supports and pins in the said edges designed to engage and slide in said slots, means for securing a piece of drawing paper to said edges and means controlling the lateral movement of said edges and connecting them with the board whereby the tension on the drawing paper can be regulated, substantially as described.

6. A drawing board provided with extensible edges each having a slot with an inclined bottom and a slanting side wall and a paper clamping strip one edge beveled and the other edge rounded, the width of said strip and the thickness of the paper inserted thereunder together being greater than the width of the bottom of the slot, substantially as described.

7. A drawing board provided with a non extensible edge having a slot, extensible edges each having a slot, and a paper clamping strip for the lower portion of each of said slots, the width of each of said strips and the thickness of the paper inserted thereunder together being greater than the width of the bottom of the slots, substantially as described.

8. A drawing board provided with cleats,
screw bolts having their heads mounted
therein and extensible edges provided with
thumb nuts designed to travel on said bolts
5 and adjust the said edges, substantially as
described.

9. A drawing board provided with cleats
having slots therein, screw bolts the heads of
which are mounted in said slots and exten-
10 sible edges provided with thumb nuts which
are designed to be mounted and travel on
said screw bolts and adjust the extensible
edges, substantially as described.

10. A drawing board provided with exten-
15 sible edges having angular guides connecting

the same at the corners by means of which
said edges are kept at the proper angle to
each other, means carried by said edges for
clamping the edge of a piece of drawing ma-
terial and means for adjusting said edges 20
connected to the board and edges, substan-
tially as described.

In testimony whereof I have signed my
name in the presence of two subscribing wit-
nesses.

WILLIAM FRANKLIN WAGNER.

Witnesses:

PHILIP F. LARNER,
JAS. H. BLACKWOOD.