July 29, 1947. J. U. PEREZ 2,424,630

DRAWING BOARD

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Fig. 1.

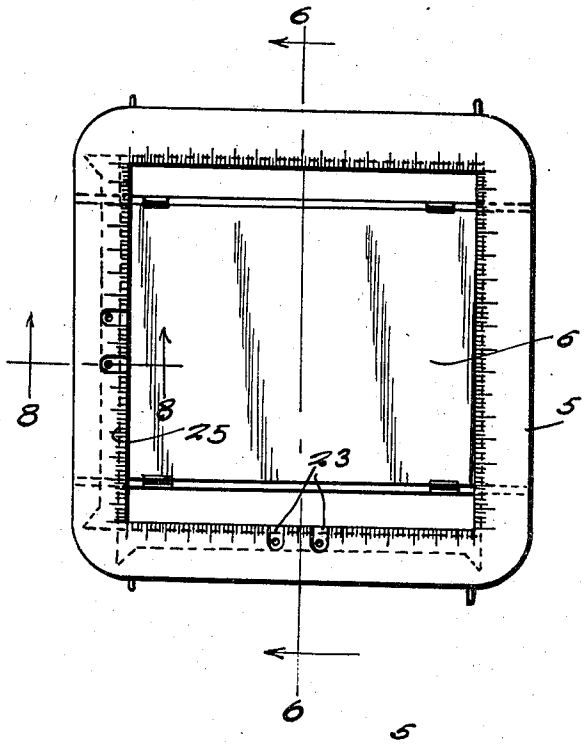
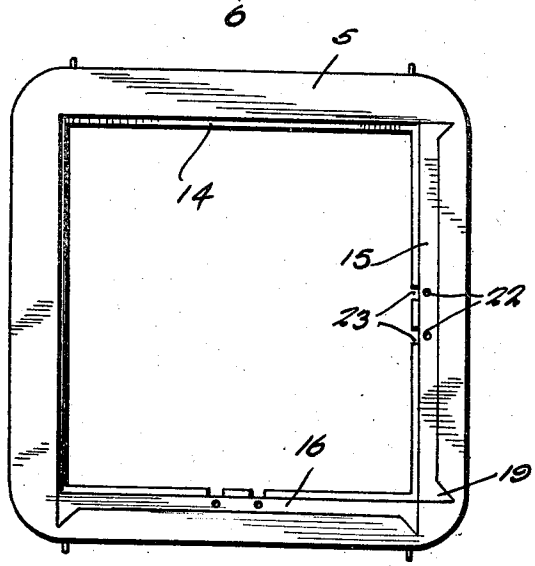


Fig. 2.



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Fig. 3.

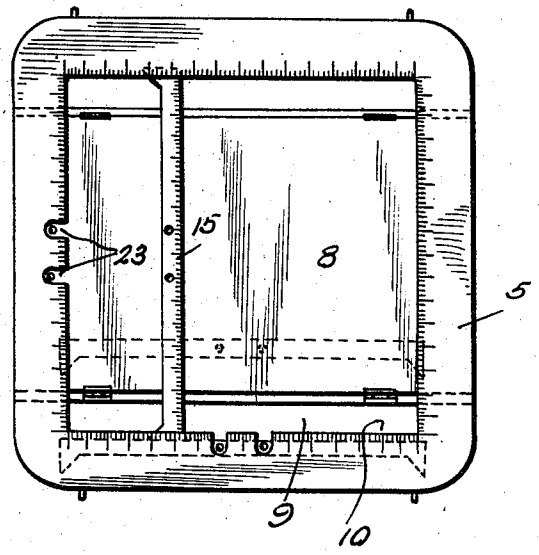


Fig. 4.

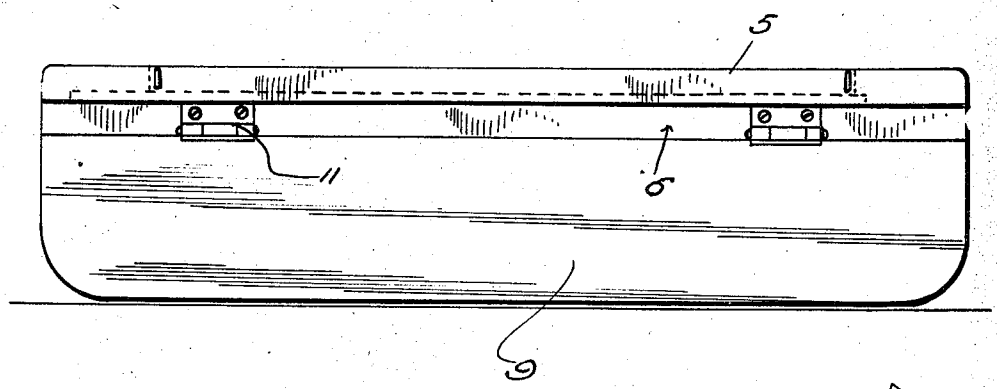
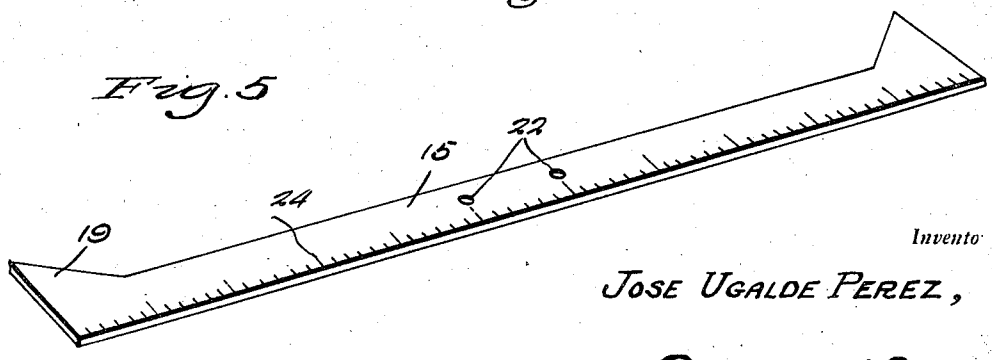


Fig. 5



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Fig. 6.

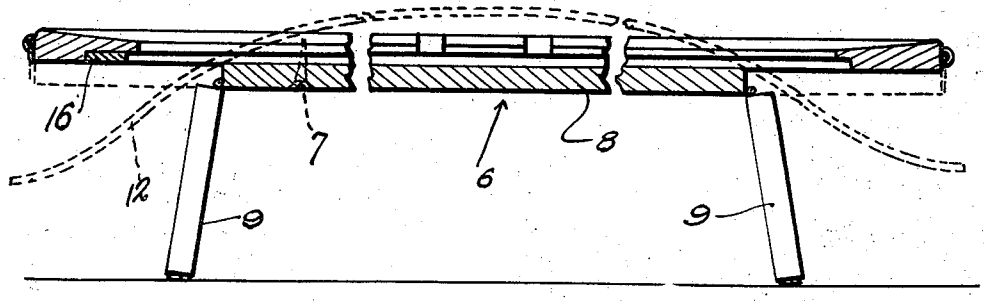


Fig. 7.

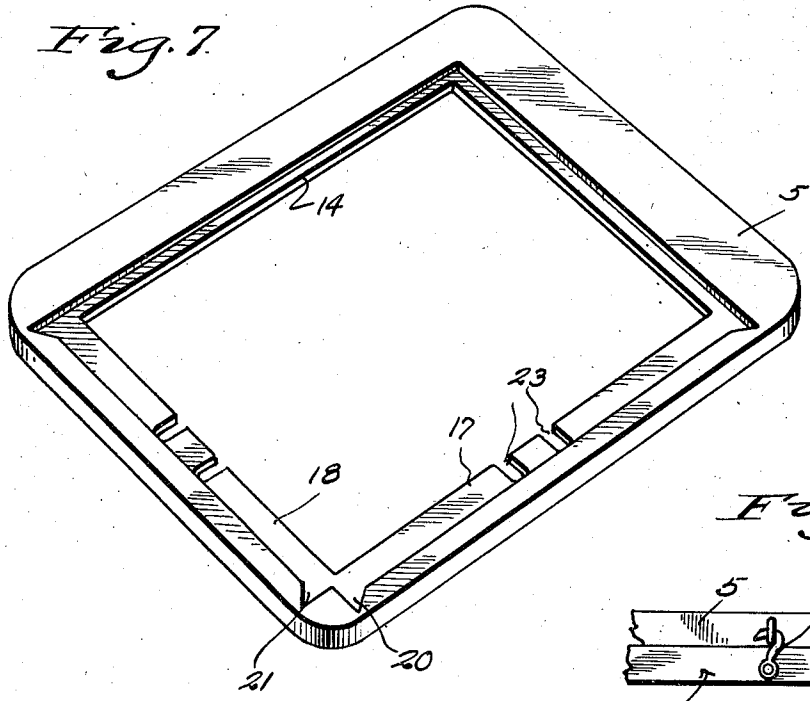


Fig. 9.

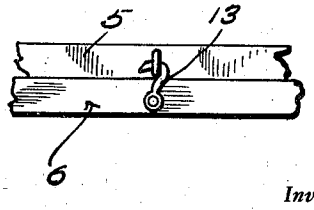
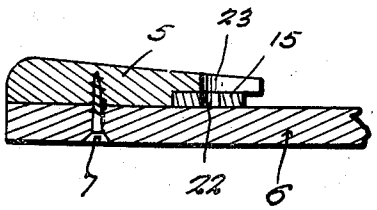


Fig. 8.



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UNITED STATES PATENT OFFICE

2,424,630

DRAWING BOARD

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Application August 4, 1944, Serial No. 548,016

4 Claims. (Cl. 33—80)

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The present invention relates to new and useful improvements in drawing boards embodying means for clamping the paper in position on the board and also embodying longitudinal and transverse straight edges slidably carried by the board and having graduations thereon adapted to mark and measure vertical and horizontal lines on the drawings.

An important object of the present invention is to provide a drawing board which includes an open frame member secured on a base provided with hinged panel sections at opposite edges thereof adapted for clamping the paper between the base and the frame and also in which the base is utilized for retaining the sliding straight edges in position against the underside of the frame.

A still further object is to provide a device of this character of simple and practical construction, which is neat and attractive in appearance, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction, operation and advantages as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which—

Figure 1 is a top plan view.

Figure 2 is a bottom plan view of the frame member forming part of the drawing board.

Figure 3 is a top plan view thereof and showing one of the sliding straight edges carried by the board.

Figure 4 is an end elevational view showing one of the clamping panels in open position.

Figure 5 is a perspective view of one of the sliding straight edges or rulers.

Figure 6 is a sectional view taken substantially on a line 6—6 of Figure 1.

Figure 7 is a perspective view showing the bottom of the open frame forming part of the drawing board.

Figure 8 is a fragmentary sectional view taken substantially on a line 8—8 of Figure 1, and

Figure 9 is a fragmentary side elevational view showing the connector for connecting the clamping panel in closed position.

Referring now to the drawings in detail wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates an open frame and the numeral 6 designates a base in the form of a

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flat board and secured to the underside of the frame at the sides of the latter by screws 7.

The base 6 includes a stationary central portion 8 and a pair of clamping wings or panels 9 and 10 at opposite edges of the central portion 8 and pivotally attached thereto by the hinge members 11.

The edges of the fixed portion 8 of the base are spaced inwardly from the adjacent inner edges of the frame 5 to provide an opening between the base and the frame, when the clamping panels are in open position, to permit a sheet of paper 12 to be inserted through the opening for placing on top of the base 8. The clamping panels may then be swung into a closed position for clamping the ends of the paper against the underside of the frame 5 by means of the hooks 13.

The under surface of the frame 5 is rabbeted to form overhanging shoulders 14 extending around the inside edges of the frame to accommodate the ends of a longitudinal straight edge 15 and a transverse straight edge 16 between the base and the shoulders 14 of the frame, the longitudinal straight edge 15 being slidable from side to side of the frame while the transverse straight edge 16 is slidable from top to bottom of the frame.

The rabbeting at one side of the frame 5 is increased in depth as shown at 17 to accommodate the width of the straight edge 15 and the rabbeting at one end of the frame is likewise increased in depth as shown at 18 to accommodate the width of the straight edge 16, so that when one of the straight edges is in use the other of said straight edges will be recessed under the shoulder of the frame to prevent interference with the movement of the other of said straight edges.

In order to maintain the straight edges in proper relation in the frame, the ends of the straight edges are formed with lateral extensions or feet 19 which provide relatively wide contacting faces for engagement with opposed frame members and the ends of the recesses 17 and 18 are provided with pockets 20 and 21 to accommodate the extensions 19 when the straight edges are moved into their respective recesses.

The central portions of the straight edges are formed with openings 22 adapted to register with slots 23 in the recesses of the frame and adapted for insertion of the thumb and index finger of the hand of a person or a pencil or other sharp drawing device therein for sliding the straight

edges outwardly of their respective recesses from under the frame.

The upper surface of the straight edges **15** and **16** are formed with graduations **24** while the upper surface of the frame **5** around each of its inner edges is also marked with graduations **25**.

In the operation of the device after the paper **12** has been placed in position through the openings at the opposite edges of a fixed central portion of the base, the clamping panels **9** and **10** may then be closed for clamping the paper on the base and under the frame.

Either of the straight edges **15** and **16** may then be moved across the paper and used to rule and mark the paper in any desired manner.

It is believed that the details of construction and manner of use of the device will be readily understood from the foregoing without further detailed explanation.

Having described the invention, what is claimed as new is:

1. A drawing board which includes a base, a frame comprising spaced parallel frame members carried by the base, inwardly extending flanges on the frame members adapted to overhang the base in spaced relation thereto, a pair of straight edges lying perpendicular to one another and movable over the base beneath the flanges and certain of the frame members having recesses of a width and length to receive the straight edges whereby one or the other of the straight edges may be moved into a recess while the other straight edge is in use.

2. A drawing board which includes a base, a frame comprising spaced parallel frame members carried by the base, inwardly extending flanges on the frame members adapted to overhang the base in spaced relation thereto, a pair of straight edges lying perpendicular to one another and movable over the base beneath the flanges and certain of the frame members having recesses of a width and length to receive the straight edges whereby one or the other of the straight edges may be moved into a recess while the other straight edge is in use, and each of the recessed frame members having notches intermediate its

ends to facilitate the extraction of a straight edge from its position in the respective recess.

3. A drawing board which includes a base, a frame comprising spaced parallel frame members carried by the base, inwardly extending flanges on the frame members adapted to overhang the base in spaced relation thereto, a pair of straight edges lying perpendicular to one another and movable over the base beneath the flanges and certain of the frame members having recesses of a width and length to receive the straight edges so that one or the other of the straight edges may be moved into a recess while the other straight edge is in use, whereby the straight edge which is moved into its respective recess will cooperate with the opposing frame member in guiding the other straight edge.

4. A drawing board comprising an open frame formed of spaced parallel frame members, a base secured to the bottom of the frame, an overhanging shoulder at the inner edge of each frame member, at least one of said frame members having an elongated recess opening through its inner edge beneath its shoulder and a straight edge slidable on the base with its ends positioned beneath the shoulders of opposed frame members and adapted for movement into said recess whereby to clear the surface of the base within the frame.

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