

May 9, 1933.

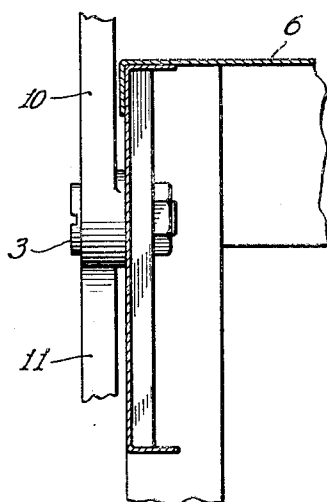
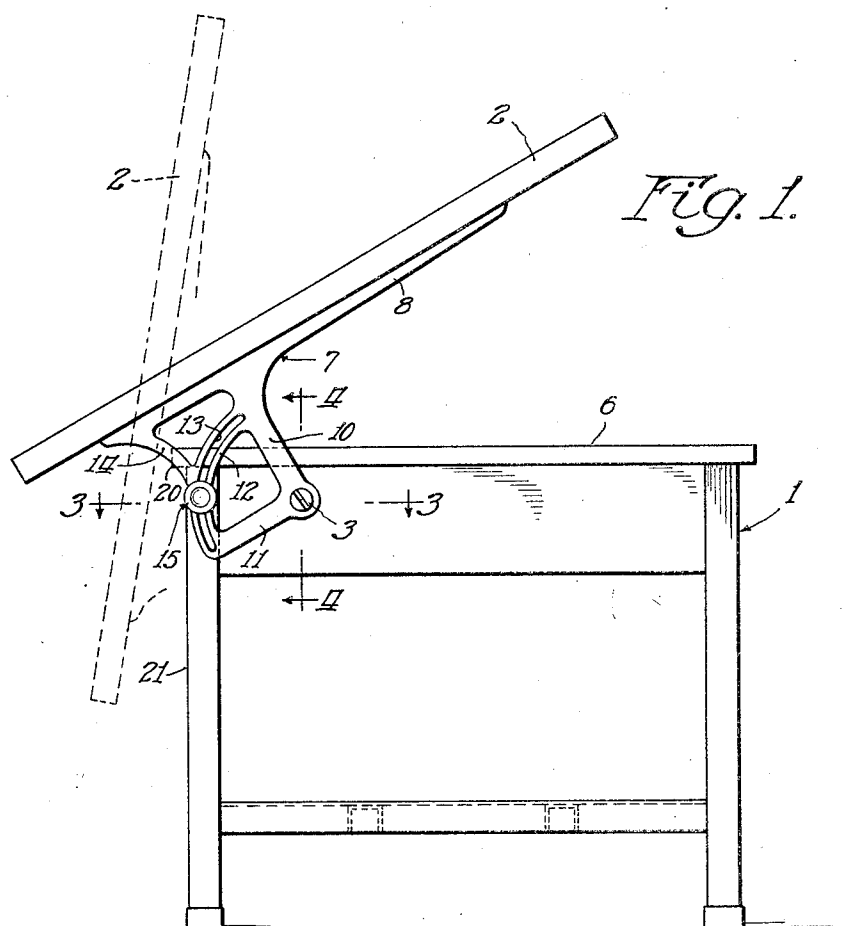
G. E. FROELICH

1,907,780

DRAWING TABLE

Filed April 20, 1931

2 Sheets-Sheet 1



Inventor  
George E. Froelich  
By Langdon Moore  
Att'y.

May 9, 1933.

G. E. FROELICH

1,907,780

DRAWING TABLE

Filed April 20, 1931

2 Sheets-Sheet 2

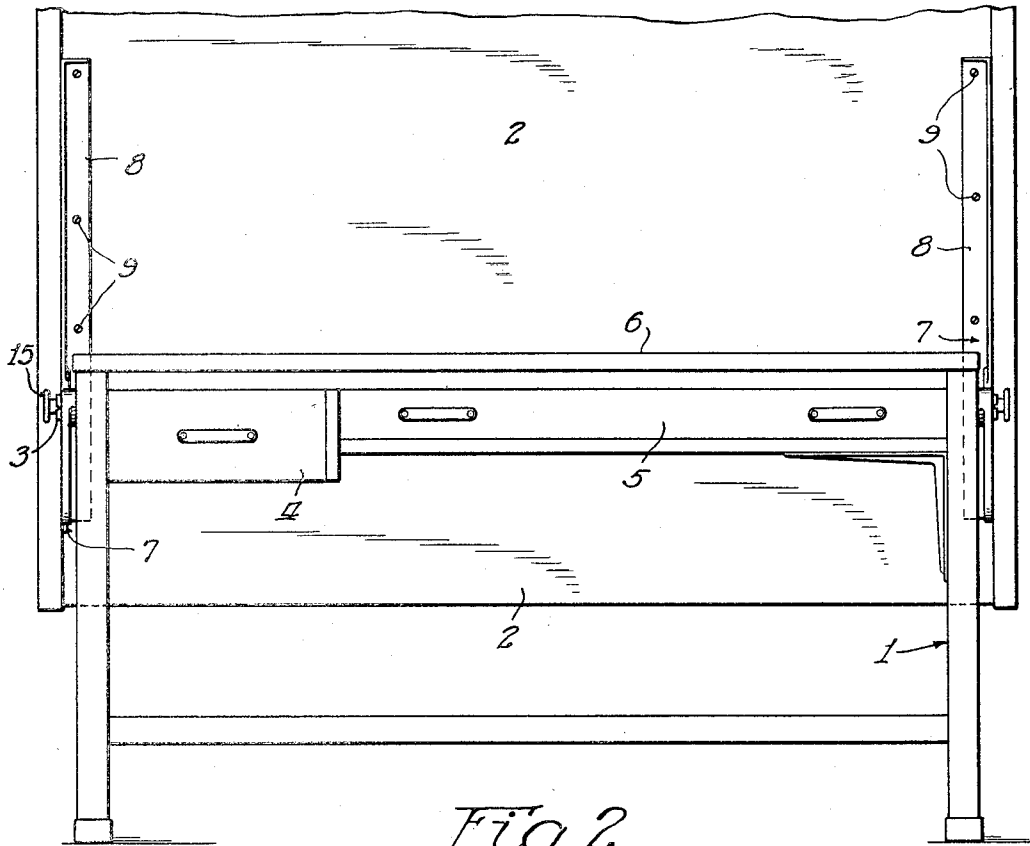


Fig. 2

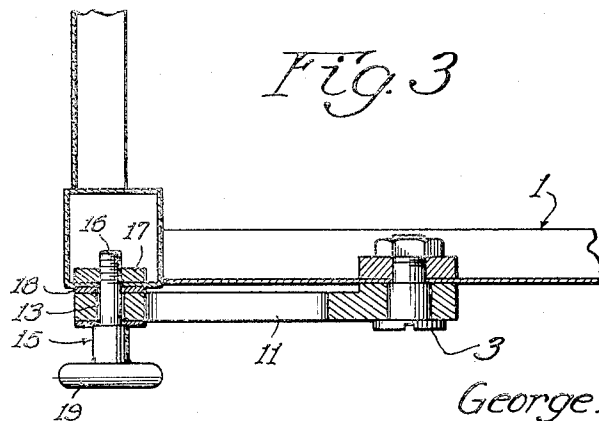


Fig. 3

Inventor  
George E. Froelich  
By Langdon Moore  
Att.

## UNITED STATES PATENT OFFICE

GEORGE E. FROELICH, OF TWO RIVERS, WISCONSIN, ASSIGNOR TO HAMILTON MANUFACTURING COMPANY, OF TWO RIVERS, WISCONSIN, A CORPORATION OF WISCONSIN

## DRAWING TABLE

Application filed April 20, 1931. Serial No. 531,457.

This invention relates to drawing tables or the like.

Among other objects, the invention aims to provide a combined drawing table and desk which can be used simultaneously by two people, thus effecting a saving in floor space and which is at the same time simple and economical in construction.

Another object is to provide a drawing board which can be used either with a chair of ordinary height or with the usual stool or in standing position, and, to this end, the invention is inclusive of simple and easily operable means for adjusting the angle of the drawing board at will.

My improved and simplified drawing table desirably includes a desk and a drawing board pivotally mounted on the desk, the pivot point being in the region of an upper corner of the desk but spaced from the upper and vertical faces of the desk.

The invention may be understood by reference to the illustrative embodiment thereof shown in the accompanying drawings, in which—

Figure 1 is a view in side elevation of a drawing table embodying my invention, and showing, in dotted lines a selected variation of the angle of the drawing board.

Figure 2 is a front elevation of the desk showing the underside of the drawing board.

Figure 3 is a sectional view taken on the line 3—3 of Figure 1; and

Figure 4 is a section taken on the line 4—4 of Figure 1.

Referring in detail to the figures of the drawings, I have shown a base such as the desk 1 upon which a drawing board or the like 2 is pivotally mounted as at 3, at each side vertical face of the desk.

The desk 1 is desirably provided in its front vertical face (Figure 2) with drawers such as are shown for illustration at 4 and 5, room being left under the drawers for the knees of a person working at the front vertical face of the desk, to whom the upper face 6 of the desk is available in most angular positions of the drawing board 2.

As here shown, the drawing board 2 is mounted on the desk 1 through the interme-

diation of metal brackets 7 engaging the desk at each side vertical face at the pivot point 3. The board 2 faces away from the desk.

Each bracket 7 is desirably inclusive of a supporting arm 8 which is parallel to the board 2 and is desirably elongated to provide adequate support for the board. The arm 8 extends to one side of the bracket toward the front of the desk. The board 2 may be rigidly secured to the supporting arm 8 as by means of screws 9.

Integral with the supporting arm 8 is a pivot arm 10 which is pivoted to the desk at 3, as already described. The pivot arm 10 is substantially perpendicular to the supporting arm 8. Extending at right angles to the pivot arm 10 and substantially parallel with the supporting arm 8 is an auxiliary pivot arm 11.

Connecting the extremities of the arms 10 and 11, the bracket is provided with an arcuate member 12 which is slotted as at 13, the slot being concentric with the pivot point 3. The arms 10 and 11 and the arcuate member 12 define a ninety degree sector of a circle or quadrant, one of the radii defining the quadrant being perpendicular to the board 2 and the other radius being parallel to the board. In this instance a brace 14 connects one extremity of the arm 8 and the mid-portion of the arcuate member 12.

Clamping means are provided to cooperate with the arcuate member 12 to lock the board 2 at any desired angle with respect to the desk 1. In the illustrative construction, the desk is provided with a clamp screw 15 which has a reduced portion 16 that passes through the slot 13 and screws into and out of a suitable bearing 17 fixed to the desk 1.

Washers 18, which may be of metal, surround the reduced portion 16 of the clamp screw 15, one of the washers being between the arcuate member 12 and the desk 1 and the other washer being between the arcuate member 12 and a shoulder formed on the clamp screw 15 at the outer end of the reduced portion 16. Thus by screwing the clamp screw 15 inwardly, the board 2 may be frictionally but securely locked in any desired angular position with respect to the desk 1, the slot

13 affording a range of movement of the board of substantially ninety degrees, or from a horizontal position to a vertical position. A hand wheel 19 may be conveniently provided  
 5 on the clamp screw 15 for ready manipulation of the clamping means.

In order that the board 2, when vertical, may be sufficiently low to permit of convenient use with a chair of ordinary height, and  
 10 that, when horizontal, it may permit of convenient use with a conventional high stool or in standing position of the draftsman, I have located the pivot point 3 of the bracket 7 so  
 15 that the pivot is in the region of the upper corner 20 of the desk 1 but is spaced from the upper face 6 of the desk and from the rear vertical face 21 of the desk. The pivot  
 20 point 3 is desirably nearer to the upper horizontal face 6 of the desk than it is to the rear vertical face 21. Obviously when the board is in horizontal position, it is spaced farther  
 25 from the desk than when it is in vertical position. Also as clearly shown in the drawings, the bracket 7 is off-center of the board 2 toward the lower edge of the board. This  
 30 arrangement effects an appropriate height for the drawing board when horizontal or when approaching the horizontal and at the same time, in most angular positions of the  
 35 board, does not interfere with use of the face 6 of the desk by one who is seated at the front vertical face of the desk. On the other hand, the drawing board may be simultaneously  
 40 used by another person and in vertical or rear vertical position the board is relatively close to but spaced from the desk 1. Thus two working surfaces (the board 2 and the upper desk face 6) are provided which  
 45 may be used simultaneously by two different persons and material economy in floor space is effected. Furthermore, my improved pivotal mounting for the board permits the board to be as large or larger in area than the top of the desk, as is clearly shown in the drawings.

It is thought that the construction, utility and advantage of this invention will now be quite apparent to those skilled in this art, without a more detailed description thereof.

50 The present embodiment of the invention has been disclosed in considerable detail merely for the purpose of exemplification, since in actual practice it attains the features of advantage enumerated as desirable  
 55 in the statement of the invention and the above description.

It will be apparent that changes in the details of construction and in the combination and arrangements of parts may be resorted to, without departing from the spirit  
 60 or scope of the invention as hereinafter claimed.

Having described one embodiment of my invention, I claim:

65 1. In a device of the class described, a

bracket having an elongated supporting arm, integral pivot arms, one perpendicular and the other parallel to the supporting arm, a pivot hole at the intersection of said pivot  
 70 arms, an arcuate member connecting the outer ends of the pivot arms, an arcuate slot in said arcuate member concentric with said pivot hole, and a brace connecting the supporting arm and the arcuate member in the region  
 75 of the pivot arm which is parallel to the supporting arm.

2. In a drawing table, the combination with a desk; of a bracket comprising right angularly related pivot arms pivoted to the desk on an axis passing through the desk in  
 80 the region of an upper corner thereof but spaced inwardly from both the faces of the desk; an arcuate member connecting said pivot arms, said arcuate member having a substantially ninety degree slot therein concentric  
 85 with said axis; an elongated supporting arm integral with said bracket and extending to one side thereof, said arm being parallel to one of said pivot arms; a drawing board as large in area as the top of the desk mounted  
 90 on said supporting arm to cause the bracket to be off-center of the board toward the lower edge thereof; and a clamping screw passing through said slot and engaging the desk.

In witness whereof, I hereunto subscribe my name.

GEO. E. FROELICH.