

Feb. 16, 1932.

E. ERIKSEN

1,845,868

ADJUSTABLE DRAWING BOARD

Filed March 18, 1931

2 Sheets-Sheet 1

Fig. 2.

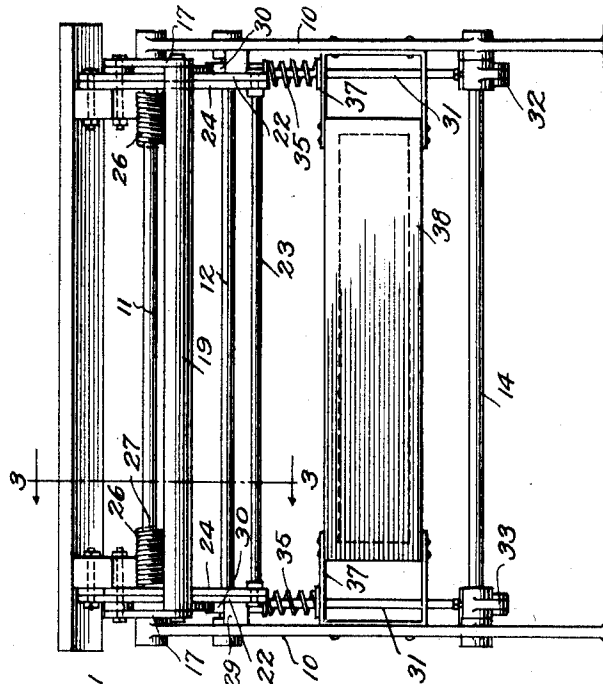


Fig. 1.

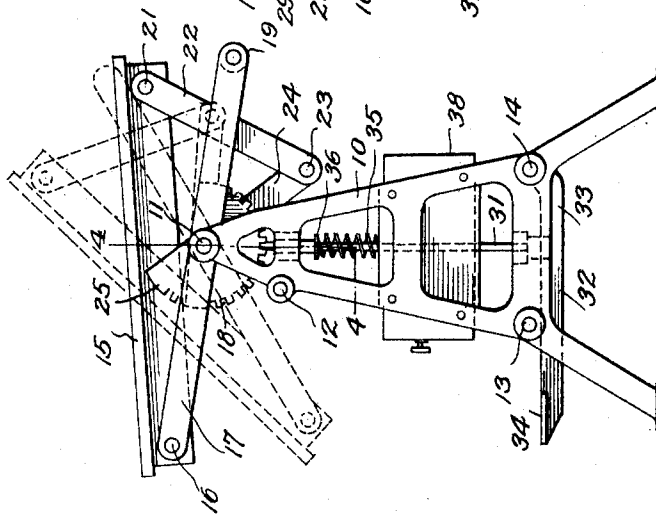
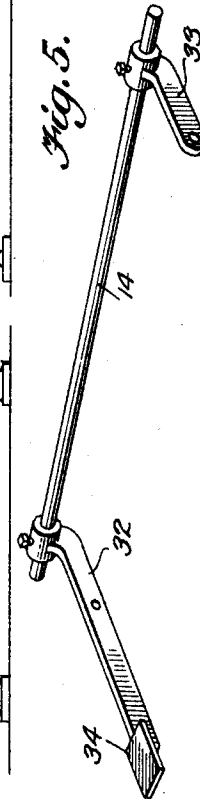


Fig. 5.



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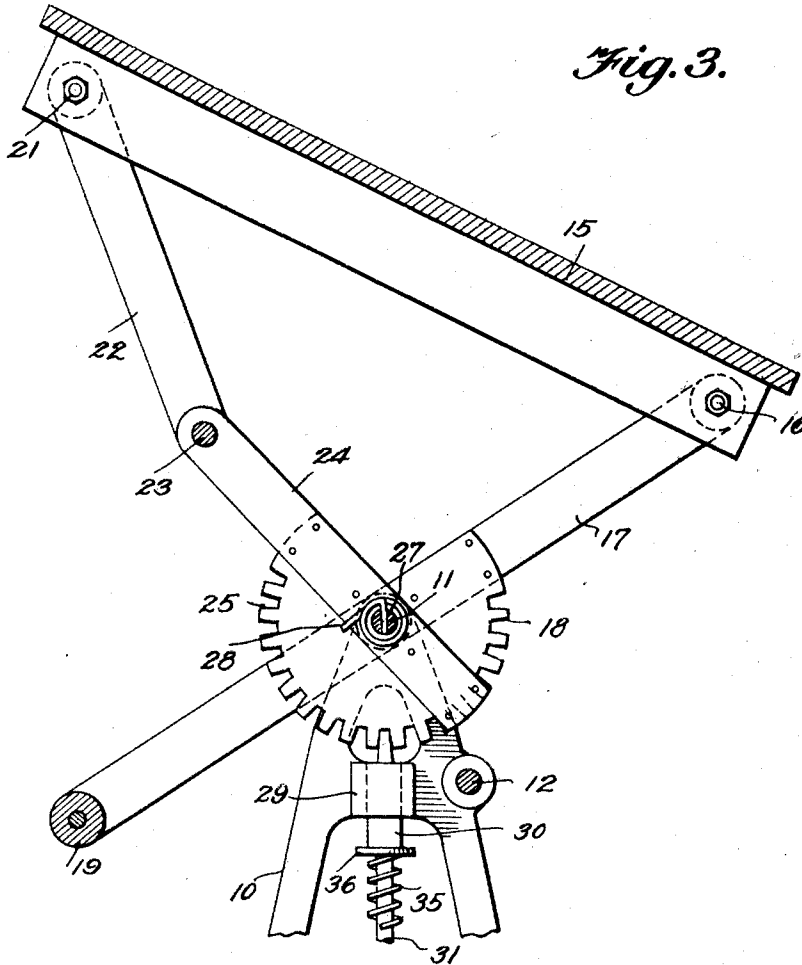
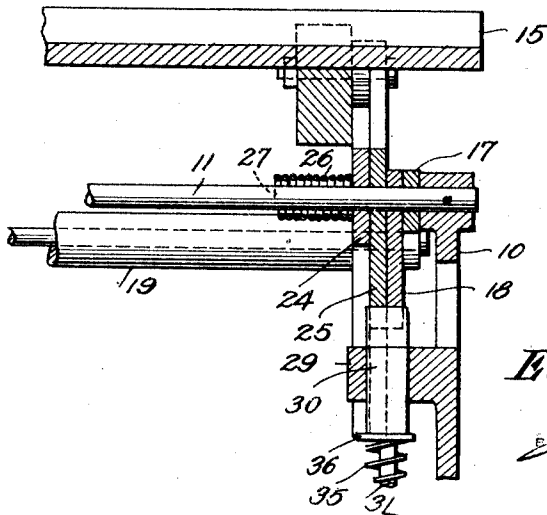


Fig. 4.



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ADJUSTABLE DRAWING BOARD

Application filed March 18, 1931. Serial No. 523,586.

This invention relates to adjustable drawing tables or boards, and has for an object a provision of means for mounting the table top or board, whereby the same may be adjusted to any desired position and held against accidental movement, foot operated means being provided to lock and release the top or board, so that both hands will be free to effect adjustment.

10 Another object of the invention is the provision of means for so balancing the table top or board, whereby adjustment may be quickly accomplished in a smooth and easy manner.

15 Another object of the invention is the provision of an adjustable drawing table or board, which is simple and economical in construction and may be built in various sizes for use.

20 With the above and other objects in view the invention includes the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claims.

25 In the drawings:

Figure 1 is an end elevation illustrating the invention and showing by dotted lines different positions of the table top or board.

Figure 2 is a rear elevation of the same.

30 Figure 3 is an enlarged fragmentary sectional view taken substantially on the line 3—3 of Figure 2, but showing the parts in a different position.

35 Figure 4 is a fragmentary sectional view on the line 4—4 of Figure 1.

Figure 5 is a perspective view of the rock shaft and foot pedal.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates the end members of a frame. These members may be of any suitable size and configuration, and are connected at their upper ends by means of a rigid rod or shaft 11, while a brace bar 12 also connects these members near the rod 11. Near the lower ends, these members are connected by rods 13 and 14, the latter being rockably mounted and form a rock shaft the purpose of which will be hereinafter apparent.

The table top or board is indicated at 15, and pivotally secured to opposite ends of this top or board near one edge thereof as indicated at 16, are levers 17. These levers are positioned at opposite ends of the frame and have rigidly secured thereto toothed segments 18. The outer ends of the levers 17 are connected by a relatively heavy bar 19, which provides a counter weight to balance the edge of the board or table top to which the levers 17 are pivotally connected.

Pivotally secured to the ends of the table top near the other edge thereof, as shown at 21 are the inner ends of what may be termed outer links 22. Pivotally secured to the outer ends of these outer links as shown at 23 are the outer ends of inner links 24. The inner ends of these outer links 24 are pivotally mounted upon the rod or shaft 11 and have secured thereto toothed segments 25, which are arranged concentrically and are similar to the segments 18. This structure is duplicated at opposite ends of the table, the pivot 23 being in the nature of a rod which extends across the table and has pivotally secured thereto the adjacent ends of the links 22 and 24.

Surrounding the rod 11 adjacent each end thereof is a coiled spring 26. One of the ends of these springs is secured to the rod 11 as shown at 27, while their other ends are engaged with the levers 24 as shown at 28. The tendency of the springs 26 is to force the levers 24 upwardly, while the tendency of the weight 19 is to force the weighted ends of the levers 17 downwardly, so that this weight tends to raise the opposite edge. A balancing effect is so provided so that the table may be easily moved to any adjustable position.

Operating in guides 29, secured or carried by the end members 10 of the frame, are latches 30. These latches are adapted to engage the teeth of the segments 18 and 25, and are carried at the upper ends of latch rods 31. The lower ends of these rods are pivotally secured to arms or levers 32 and 33, which are fast to the rock shaft 14. The lever 32 is relatively long and carries at its outer end a foot pedal 34. Springs 35 which surround the rods 31 and bear against collars 36 mounted

upon said rods, and against brackets 37 secured to the end members 10, act to yieldingly force the latch upwardly so that the latter will engage the teeth of the segments.

5 When it is desired to adjust the table top, the lever 32 is pressed downwardly by the foot pedal 34. The top 15 may then be moved upon the pivots 16 and 21, while the lever 17 may be moved upon the shaft 11, and links 22 and 24 relatively moved. Thus any desired
10 position of the top 15 may be obtained. By releasing the foot pedal 34, the latches 30 will move into engagement with the teeth of the segments 18 and 25 so that the parts
15 will be locked against movement.

A drawer or compartment 38 may be secured between the brackets 37 to provide convenient means for the storage of articles.

The invention is susceptible of various
20 changes in its form, proportion and minor details of construction, and the right is herein reserved to make such changes as properly fall within the scope of the appended claims.

Having described the invention, what is
25 claimed is:

1. In an adjustable table, a supporting frame, a table top, levers having one of their ends pivotally secured to opposite sides of the table top adjacent one edge, means pivotally
30 otally securing said levers to the frame, a toothed segment fast with each lever, outer links having one of their ends pivotally secured to opposite sides of the table top adjacent the other edge, inner links having their
35 inner ends pivotally secured to the frame concentric with the pivot means of the levers and their outer ends pivotally secured to the inner ends of the outer links to provide an adjustable floating mounting for the table top,
40 toothed segments rigid with the inner links and concentric with the segments and adjustable with respect thereto and means engaging the segments to hold the same in adjusted position and hold the table top against
45 movement.

2. In an adjustable table, a supporting frame, a table top, levers having one of their ends pivotally secured to opposite sides of the table top adjacent one edge, means pivotally
50 securing said levers to the frame, a toothed segment fast with each lever, outer links having one of their ends pivotally secured to opposite sides of the table top adjacent the other edge, inner links having their inner
55 ends pivotally secured to the frame concentric with the pivot means of the levers and their outer ends pivotally secured to the inner ends of the outer links to provide an adjustable floating mounting for the table top,
60 toothed segments rigid with the inner links and concentric with the segments and adjustable with respect thereto and means engaging the segments to hold the same in adjusted position and hold the table top against move-

ment, and counterbalancing means for the table top.

3. In an adjustable table, a supporting frame, a table top, levers having one of their ends pivotally secured to opposite sides of the table top adjacent one edge, means pivotally
70 securing said levers to the frame, a toothed segment fast with each lever, outer links having one of their ends pivotally secured to opposite sides of the table top adjacent the other edge, inner links having their inner ends pivotally secured to the frame concentric with the pivot means of the levers and their outer ends pivotally secured to the inner ends of the outer links to provide an adjustable floating
75 mounting for the table top, toothed segments rigid with the inner links and concentric with the segments and adjustable with respect thereto and means engaging the segments to hold the same in adjusted position
80 and hold the table top against movement, a weight to move the table top in one direction, and means to yieldingly resist such movement.

4. In an adjustable table, a supporting
90 frame, a table top, levers having one of their ends pivotally secured to opposite sides of the table top adjacent one edge, means pivotally securing said levers to the frame, a toothed segment fast with each lever, outer
95 links having one of their ends pivotally secured to opposite sides of the table top adjacent the other edge, inner links having their inner ends pivotally secured to the frame concentric with the pivot means of the levers and their outer ends pivotally secured to the inner ends of the outer links to provide an adjustable floating mounting for the table top, toothed segments rigid with the inner links and concentric with the segments and adjustable with respect thereto and means engaging the segments thereto, a shaft mounted for rocking movement in said frame, levers rigid with and extending from the shaft, spring influenced rods having one of
110 two ends pivotally secured to the levers and their other ends removably engaging the toothed segments and a foot pedal at the outer end of one of the levers.

In testimony whereof I affix my signature. 115
EINAR ERIKSEN.

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