

Sept. 24, 1929.

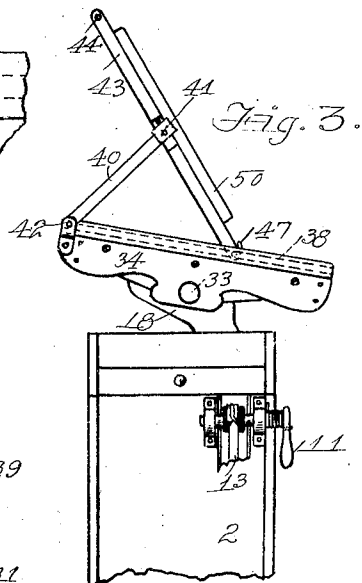
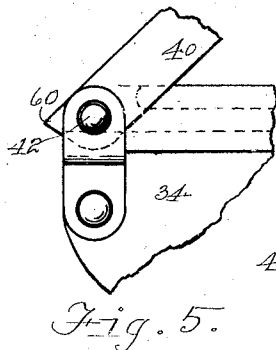
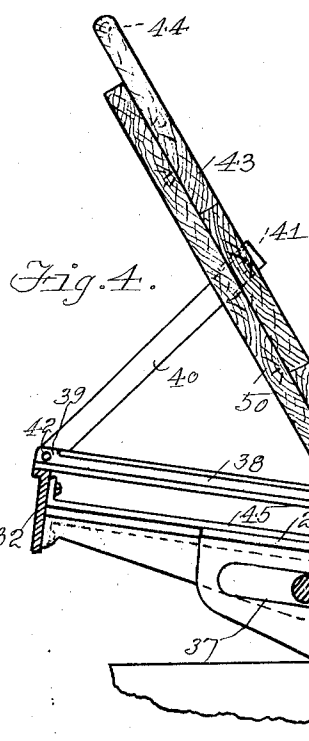
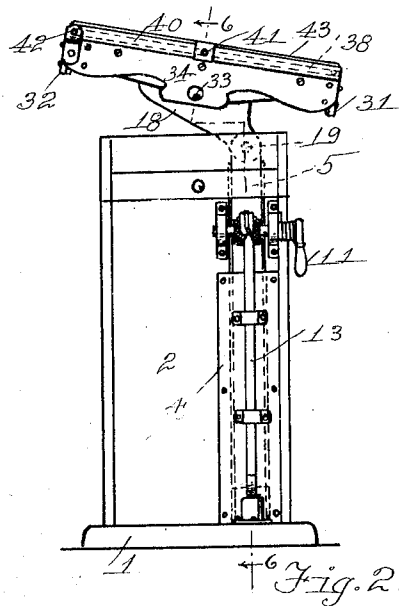
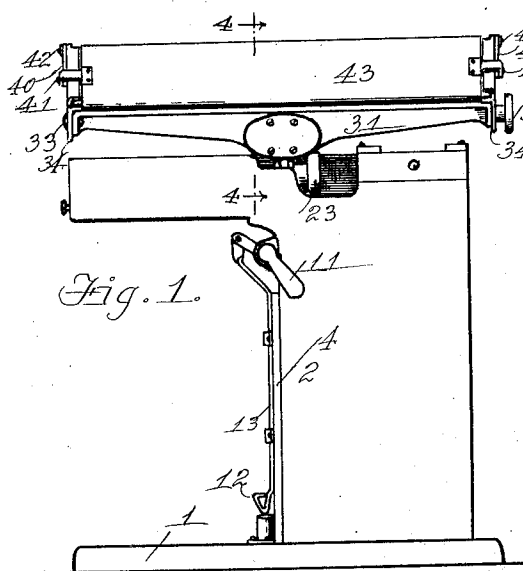
P. S. HAWKINS

1,728,933

DESK

Filed Feb. 18, 1926

3 Sheets-Sheet 1



Witness:
J. E. Redding

INVENTOR.
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Sept. 24, 1929.

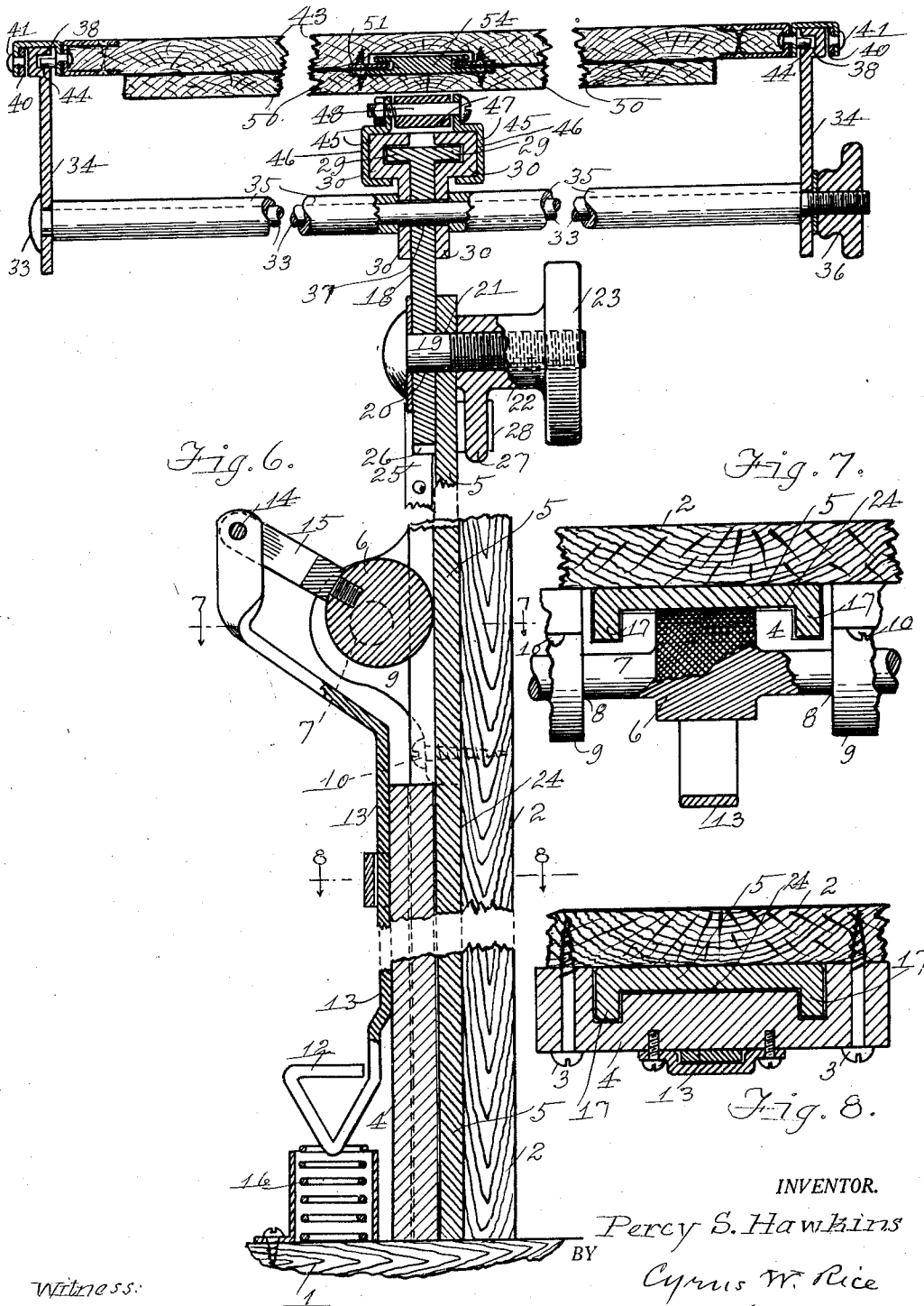
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1,728,933

DESK

Filed Feb. 18, 1926

3 Sheets-Sheet 2



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DESK

Filed Feb. 18, 1926

3 Sheets-Sheet 3

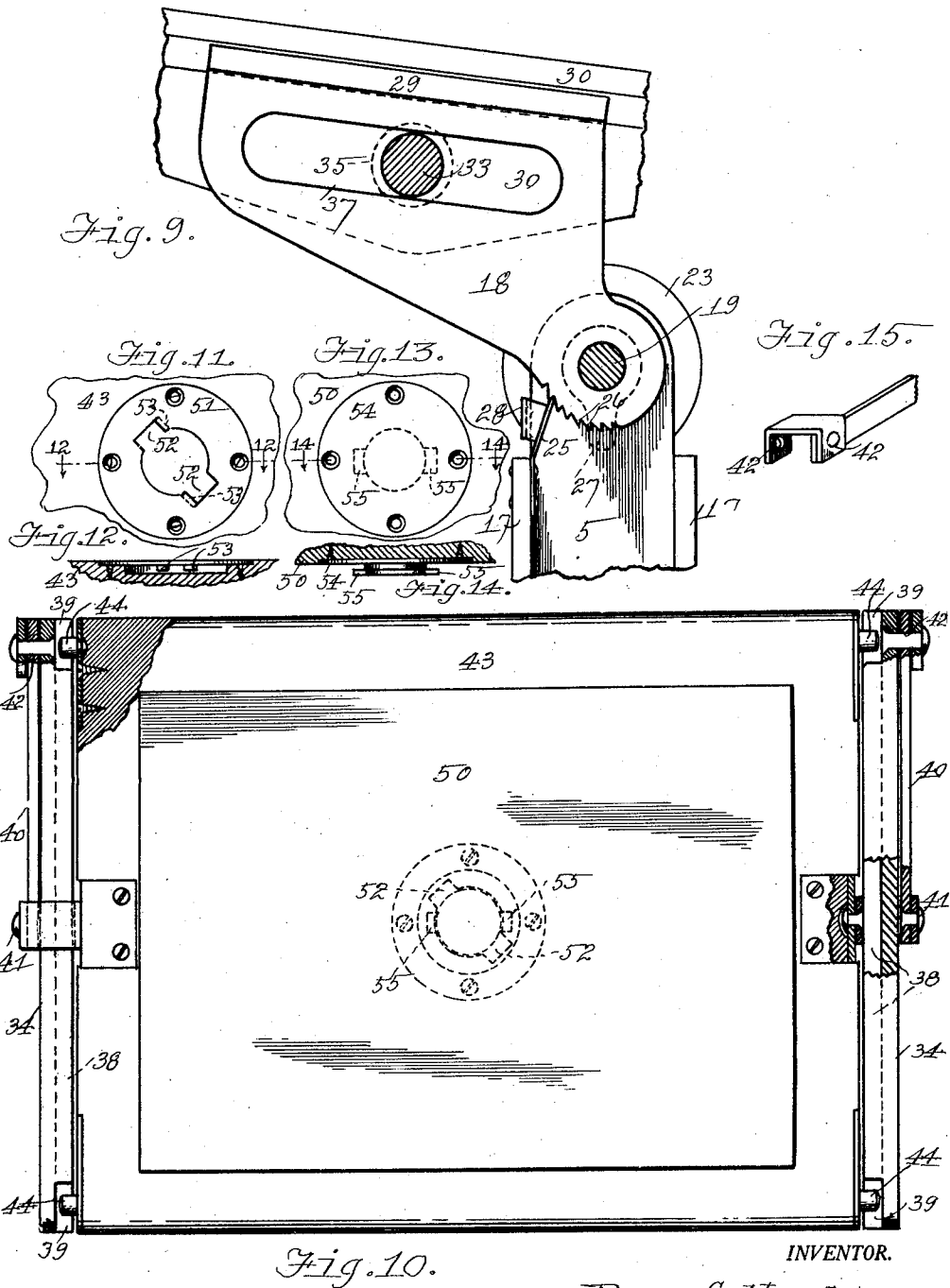


Fig. 10.

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DESK

Application filed February 18, 1926. Serial No. 89,075.

The present invention relates to desks, particularly such as are employed in schools or by draughtsmen and the like; and its object is to provide an improved structure of that character having means whereby the work-supporting member or table of the desk may be adjusted to many usable positions, together with means for holding the parts in such adjustments.

10 This and any other and more specific objects hereinafter appearing are attained by, and the invention finds preferable embodiment in, the structure hereinafter particularly described in the body of this specification and illustrated by the accompanying drawings, in which:—

Figure 1 is a front view of a desk structure;

Figure 2 is a left-hand side view thereof;

20 Figure 3 is a like view, but showing the table or work-supporting member of the structure in a raised position;

Figure 4 is a transverse sectional view of the upper part of the structure, taken on line 4—4 of Figure 1 and showing the table raised;

25 Figure 5 is a detail end view of a fragment of the structure;

Figure 6 is a sectional view of the structure taken on approximately vertical planes corresponding to line 6—6 of Figure 2;

30 Figure 7 is a transverse sectional view of certain parts of the structure taken on a horizontal plane corresponding to line 7—7 of Figure 6;

35 Figure 8 is a transverse sectional view of certain parts taken on a horizontal plane corresponding to line 8—8 of Figure 6;

40 Figure 9 is a side view of a support and a member pivotally mounted thereon, certain parts of the structure being sectioned vertically;

Figure 10 is a plan view of one side of the table or work-supporting member of the structure, certain parts being sectioned;

45 Figure 11 is a face view of one of the members for detachably connecting the table and drawing board;

Figure 12 is an edgewise view thereof, the table being shown in section taken on line 50 12—12 of Figure 11;

Figure 13 is a face view of the other member for detachably connecting the table and drawing board;

Figure 14 is an edgewise view thereof, the drawing board being shown in section taken 65 on line 14—14 of Figure 13; and

Figure 15 is a view in perspective of an end portion of the table-supporting frame.

In the embodiment of the invention illustrated by the accompanying drawings, the desk structure has a base comprising a foot 1 and an upright post 2 to which is secured as by screws 3 a bearing member 4 forming with the post a vertical bearing 24 in which a support, the bar 5, slides vertically, being releasably held in the desired position to which it may be slid by any suitable means, as the cam member 6 carried eccentrically of its shaft 7 turnably mounted at 8 on bearing members 9 secured to the post 2 as by screws 70 10. This cam member may be turned by its crank handle 11 or by a pedal 12 on the lower end of a link 13 connected at 14 to the cam member's crank arm 15 and provided with a cushioning spring 16 on the foot portion 1 75 of the structure's base.

This support 5, having strengthening flanges 17, carries at its upper end a member 18, pivotally mounted on said support by a headed bolt 19 passing through openings 20 80 in said member and 21 in said support, the threaded end of this bolt having a nut 22 provided with a hand wheel portion 23 for turning it to clamp the member 18 in desired swung or tilted position on said support. 85 The said member 18 is positively held (additionally to the frictional holding thereof exerted by such clamping action) by a spring detent 25 carried by the support 5 and holdingly engaging any of the teeth 26 carried 90 by said member 18 and extending in a curved line concentric with the axis of the bolt 19. The nut 22 has a radially extending arm 27 adapted in the loosening turning movement of the nut to engage the lateral extension 28 95 of said detent and release the same from the tooth engaged thereby. The member 18 has at its upper end side flanges 29 extending in the structure's transverse direction and forming a bearing along which the pair 100

of frame-portions 30 are slidable on the opposite sides of member 18, said portions 30 being disposed in the middle of a frame which carries the table or work-supporting member of the structure, and are secured at their ends to the front and rear downwardly-extending portions 31, 32 of said frame.

The said table-carrying frame is held in the position into which it may be slid on the bearing 29, by suitable means, as the following: A headed rod 33 extends through the frame's end portions 34 and middle portions 30 and through a slot 37 in the member 18, and carries sleeves 35 between said end portions and middle portions as seen in Figure 6. This rod is threaded, carrying a hand nut 36. By turning down this nut the frame's said end portions and middle portions, the sleeves 35 and the member 18 are clamped together. The end portions 34 of the said table-carrying frame have guides 38 extending transversely of the structure and open upwardly adjacent their ends, at 39. Links 40 pivoted at 41 to the middle of the ends of the table or work-supporting member 43 and at 42 to the ends of the frame adjacent its rear edge serve to mount the table on said frame. This table has at each end lugs 44, one of which is adjacent its front edge and the other adjacent its rear edge, either of said lugs being movable into and out of either of the open ends 39 of the guide, and either travelling along in the guide in the vertical swinging movement of the table. By this provision the table may be swung upwardly at either its front or its rear edge from its normal resting position shown in Figures 1 and 2, one of the lugs in such operation moving out of the adjacent open end of the guide and the other moving in the guide. The table may be thus swung to a desired vertical angle, such as is shown in Figures 3 and 4, and held in such position by suitable means such as the following: The middle portions 30 of said frame form a slide bearing 45 along which the body portion 46 of a table-supporting element slidably bears, said body portion having a catch 47 swingably mounted at 48 thereon and swingable upwardly into a position engaging a side edge of the table in its raised position.

This catch has an arm 62 positively engaging the lower edge of the raised table and a cam portion 63 frictionally holding on the slide bearing 45, as seen in Figure 4.

On the normally under side of the table 43 is mounted turnably parallelly therewith a drawing board 50. The underside of the table carries a plate 51 with an opening there-through having radial extensions 52 provided with end stops 53. On the inner side of the drawing board is carried a plate 54 having an outwardly extending stud provided with radial extensions 55. In assembling the draw-

ing board and table, the drawing board is turned to a position in which its edges extend at approximately an angle of 45 degrees to the edges of the table, whereupon the extensions 55 of plate 54 may be thrust through the extensions 52 of the opening in plate 51, and the drawing board may be turned and held on the table; and may in practice be turned thereon to a side up or to an end up position.

The links 40 may be squared at their outer upper corners 60 as seen in Figure 5 to prevent their turning too far rearwardly.

The invention being intended to be pointed out in the claims, is not to be limited to or by details of construction of the particular embodiment thereof illustrated by the drawings or hereinbefore described.

I claim:

1. In a structure of the character described: a supporting member having a slot there-through; a frame comprising end portions carrying a table and a pair of middle portions slidable on said member transversely thereof and along its opposite sides; a rod extending through the frame's said portions and through the slot; sleeves carried by the rod between the frame's end portions and middle portions; threaded means on the rod for clamping said end portions, middle portions and said member together.

2. In a structure of the character described: a frame having a slide bearing extending transversely thereof; a table; links pivoted to the ends thereof and to the ends of the frame for mounting the table on the frame turnably to raised and lowered position; an element having a body portion slidable on said bearing and a pivotally mounted catch having a cam and an arm and turnable to a position in which the cam is in frictionally holding engagement with said bearing and the arm in positively holding engagement with a side edge of the table in its raised position.

3. In a structure of the character described: a support having a detent; a table-carrying member pivotally mounted on the support and having teeth adapted to be holdingly engaged by the detent; turnable threaded means axially concentric with said member's pivotal mounting for clamping said member and the support together, said means having a radially extending arm adapted to engage and release the detent from the teeth in a turned position of said means.

4. In a structure of the character described: a table, a drawing board mounted on one side of said table, turnably relatively thereto and parallelly therewith about a spindle carried by said drawing board, a socket member in the table having a radial flange provided with a gap, the spindle of the drawing board having a lug adapted to be passed through the gap in a turned position

of the drawing board with the table and to be retained beneath the flange in another turned position of the drawing board.

In testimony whereof I have hereunto set
5 my hand at Grand Rapids, Michigan, this
2nd day of February, 1926.

PERCY S. HAWKINS.

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