H. E. BENNETT.

DESK.

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1,171,308.

Patented Feb. 8, 1916.

2 SHEETS—SHEET 1.

Fig. 2.

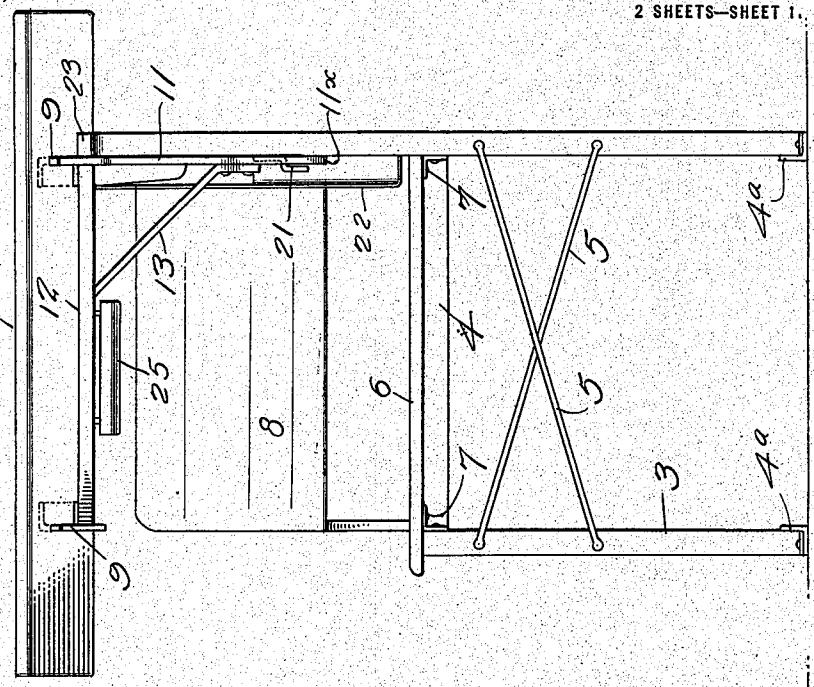


Fig. 1.

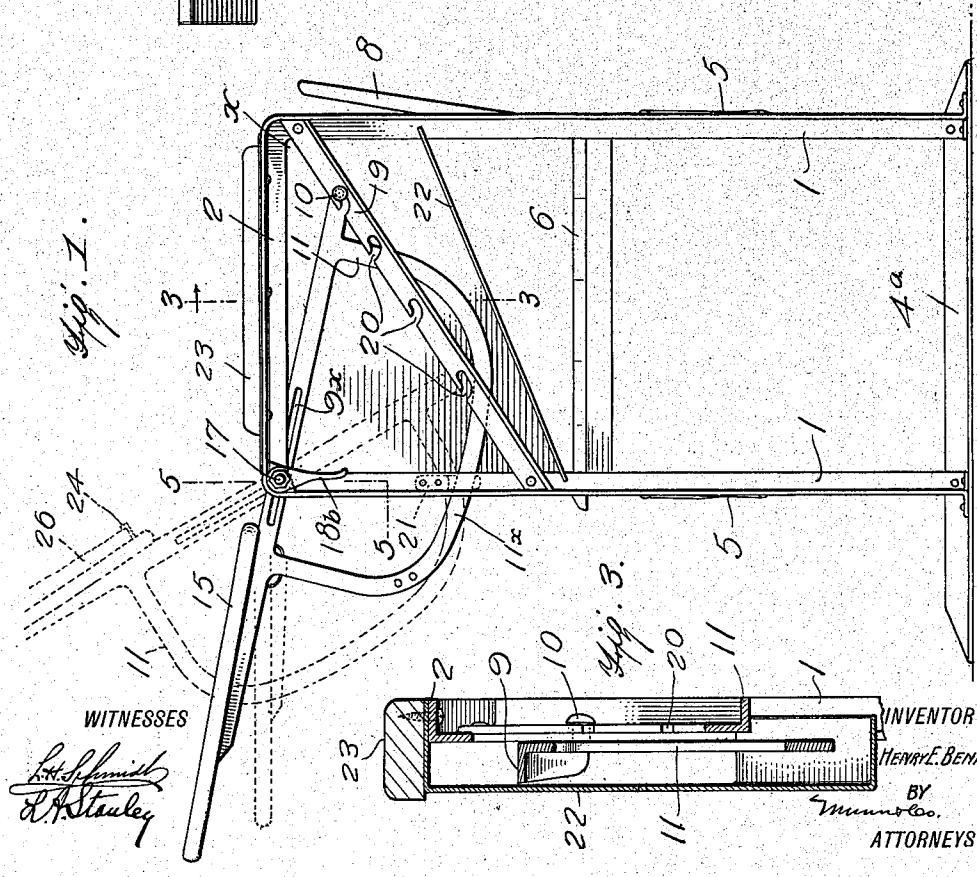


Fig. 3.

WITNESSES

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2 SHEETS—SHEET 2.

Fig. 4.

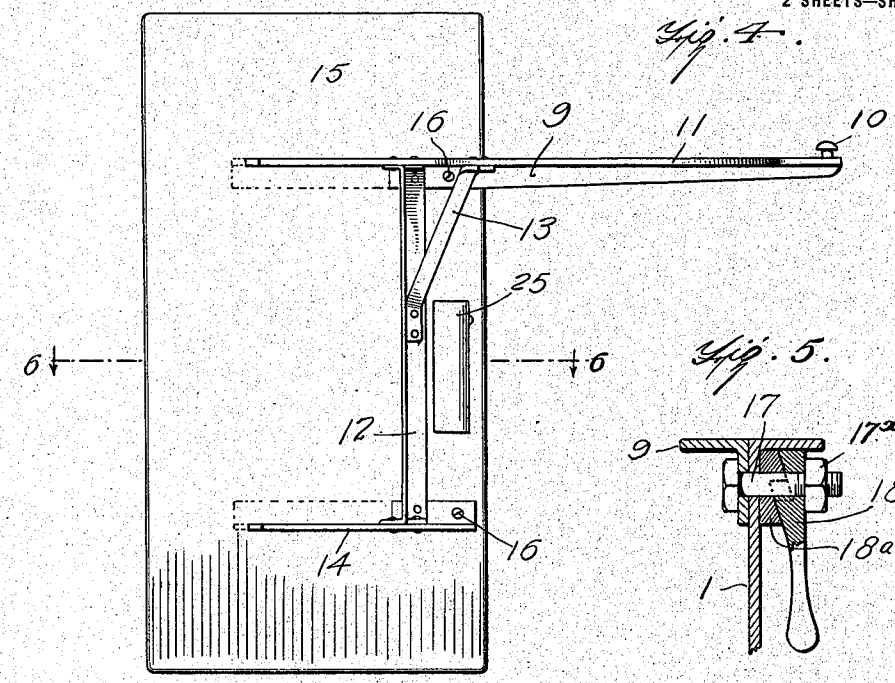


Fig. 5.

Fig. 6.

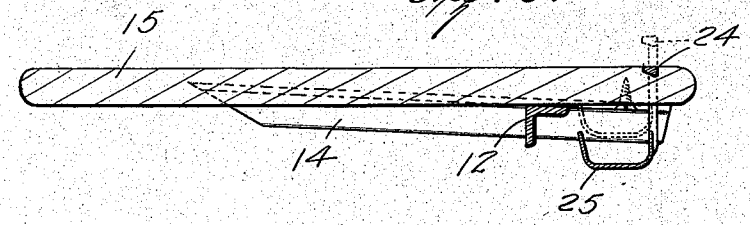
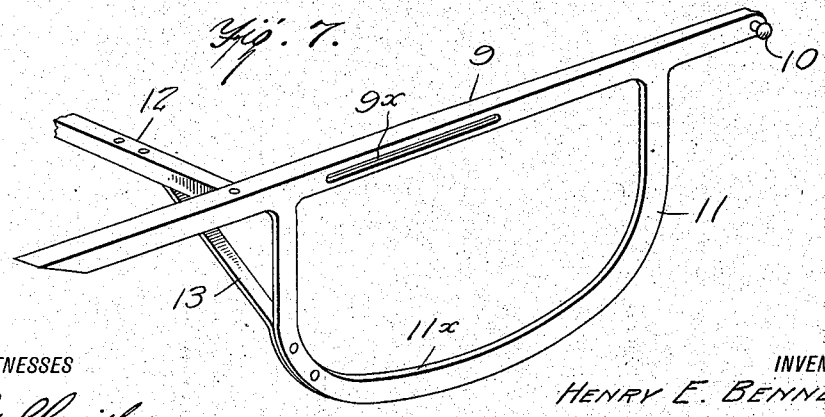


Fig. 7.



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To all whom it may concern:

Be it known that I, HENRY E. BENNETT, a citizen of the United States, and a resident of Williamsburg, in the county of James City and State of Virginia, have made certain new and useful Improvements in Desks, of which the following is a specification.

My invention relates to improvements in desks, especially those which are used for school purposes, and it consists in the constructions, combinations, and arrangements hereinafter described and claimed.

An object of my invention is to provide a desk which may be easily adjusted at various inclinations, and which is supported at one end.

A further object of my invention is to provide a device, of the type described, in which the desk top or writing surface can be readily removed from the seat portion, so that when it is desirable to use the seats alone, as for entertainments or mass meetings, the tops can be readily removed and as readily replaced.

A further object of my invention is to provide a desk of the type described, having novel supporting and guiding means for the adjustable desk top or writing surface.

A further object of my invention is to provide a desk having a writing surface projecting out in front of the seat, but which may be folded over the seat, thereby providing additional room for passage between the seats for the janitor or other persons, and facilitating the cleaning of the floors of the rooms in which the desks are used.

Other objects and advantages will appear in the following specification and the novel features of the device will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings forming part of this application in which—

Figure 1 is a side view of the device, Fig. 2 is a front view thereof, Fig. 3 is an enlarged section along the line 3—3 of Fig. 1, looking in the direction of the arrows, Fig. 4 is a bottom plan view of the desk top or writing surface, Fig. 5 is a section along the line 5—5 of Fig. 1, Fig. 6 is a section along the line 6—6 of Fig. 4, and Fig. 7 is a perspective view of the supporting and guiding member for the desk top or writing surface.

In carrying out my invention I provide a frame which consists of the uprights 1, on one side of the device, which are joined together at their tops by the cross member 2, the uprights 3 on the opposite side, cross members 4, joining the uprights 3 to the uprights 1, and brace members 5 between the uprights 1 and 3. The bottom members, such as those shown at 4^a, may also be provided if desired, these bottom members extending beyond the uprights which form the legs of the desk, so as to give greater stability. The uprights and cross members may be made of any suitable material, but are preferably made of angle-iron. A seat 6 is disposed at the top of the uprights 3 and extends horizontally, being secured in place by means of brackets 7, or in any other suitable manner. A back 8 is provided, as shown in the drawings.

In Fig. 7 I have shown the supporting and guiding member for the desk top or writing surface. This consists of an arm 9 made of angle-iron and having a longitudinal slot 9^x. The arm is provided with a laterally extending pin 10. An integral guide member 11 extends downwardly from the arm 9 and is provided with a curved portion 11^x. The arm 9 has secured to it a laterally extending arm 12, the latter being braced by a strip 13 to the member 11. A cleat 14 is secured to the end of the member 12. This cleat, as well as the end of the arm 9, are preferably run into L-shaped grooves which are cut on the under side of the top or writing surface 15, so as to hold the latter securely. Screws 16 may also be provided as additional securing members.

The top or writing surface 15, together with its supporting arm 9 and guide 11, is pivotally suspended by means of a bolt 17 which passes through the slot 9^x in the arm 9, through an opening at the upper end of the frame and through the two portions 18^a and 18^b of a locking member, the bolt 17 being provided with a nut 17^x as shown in Fig. 5. This provides for the pivoted movement of the top 15 around the bolt 17 as a center and also for a sliding movement of the top with respect to the bolt, this being accomplished by the provision of the slot 9^x. Disposed between the uprights 1 is a down-

wardly inclined locking member 19, which is provided with a series of substantially L-shaped slots 20, arranged to receive the head of the pin 10. The curved portion 11^x of the member 11 is held in position by means of a Z-shaped bracket 21 (see Fig. 2).

In order to prevent the clothing or hands of the occupant of the seat from being caught by the supporting arms of the top 15, I provide a shield 22 which extends from the top of the cross member 2 downwardly and which terminates below the guide member 11. Secured to the cross member 2 and arranged to extend over the top of the shield 22 is a wooden arm rest 23.

From the foregoing description of the various parts of the device the operation thereof may be readily understood.

In Fig. 1 I have shown the top 15, as being secured in an inclined position with respect to the horizontal, the angle of inclination being slight. In this instance the pin 10 is slipped in one of the slots 20 and the locking member 18^b is turned so as to draw up on the bolt 17, thus holding the desk rigidly in position. When now it is desired to tilt the desk to a greater angle, the locking member 18^b may be moved so as to release the tension on the bolt 17, whereupon the desk top 15 may be raised into the position shown and the pin 10 placed in the slot 20, which corresponds to the position of the desk top, as shown in dotted lines in Fig. 1 (upper position).

In order to provide means for holding a book I arrange a slidable stop member 24, which is shown in inoperative position in Fig. 6, but which may be moved to its operative position shown in dotted lines in the same figure. Secured to the stop member 24 on the under side of the top 15 is a trough 25 which serves the double purpose as a handle for operating the stop member and as a pen or pencil tray. When it is desired to use the stop 24 all that is necessary is to push upwardly on the tray 25. Thus in Fig. 1 the stop 24 is shown in position to support a book 26. The desk top 15 may be brought into a horizontal position, as shown in dotted lines in Fig. 1 by unloosening the clamping member 18^b, pulling slightly forward on the desk top so as to free the pin 10 from the slot 20 and then placing the pin in the corner x at the junction of one of the uprights and the cross member 2. If it is desirable to extend the top farther away from the seat portion, it may be done by loosening the clamping member, pushing the desk top outwardly in its horizontal position, whereupon the pin 10 will slide on the under side of the upper cross member 2. The outward movement of the desk top may continue until the end of the slot 9^x is reached, when the clamping member 18^b may again be tightened, thus holding the desk top securely in its shifted position.

It will be noted that the supporting members 9 and 14 are secured to the top 15, the plane of the top being inclined with respect to the general direction of the supporting members. This is for the purpose of bringing the top into the horizontal position when the pin 10 is resting on the under side of the cross member 2.

When it is desired to raise the desk top to a vertical position, out of the way of the janitor, in order that he may more easily clean the floor, it may be very readily done by unloosening the clamping member 18^b, raising the desk top vertically and placing the pin 10 on the lowest part of the locking bar 19 and clamping the parts rigidly by again tightening up on the member 18^b. The relation of the slotted locking bar 19, the pivotal pin 17, and the curvature of the guide member 11 is such that it requires very little effort to make the various adjustments of the desk. The occupant of the desk need not leave his seat, but he may reach over the arm 23 and manipulate the locking device with one hand and adjust the desk with the other. The pin 10 readily falls into the slots 20 and is as readily removed from the slots 20, owing to the fact that the desk is guided in its movement by the guide member 11, as well as by the pivot bolt 17 and slot 9^x.

It will be understood that the specific form of locking device, that is to say, the members 18^a and 18^b are shown for the purpose of illustration only and any other form of suitable locking mechanism might be substituted without departing from the spirit and scope of the invention.

I claim:

1. The combination with a desk seat frame, of a desk top, a supporting arm for said desk top slidably and pivotally mounted with respect to the frame for slidably or rotatably adjusting the positions of the top, common means for locking the arm in either its slidable or rotatable position of adjustment, complementary guide means carried by said frame, auxiliary locking means arranged to engage said complementary guide means to hold one end of the arm, and laterally extending guide means carried by the arm and arranged to engage a portion of the frame.

2. The combination with a desk seat frame, of a desk top, a supporting arm for said desk top slidably and pivotally mounted with respect to the frame for slidably or rotatably adjusting the positions of the top, said arm being provided with a laterally extending pin at one end, common means for locking the arm in either its slidable or rotatable position of adjustment, and auxiliary means arranged to engage and hold one end of the arm, said auxiliary lock-

ing means comprising an inclined cross member secured to said frame and provided with L-shaped slots arranged to receive the laterally extending pin on the end of said arm.

3. The combination with a desk seat frame, of a desk top, a supporting arm for said desk top slidably and pivotally mounted with respect to the frame for slidably or rotatably adjusting the positions of the top, said arm being provided with a laterally extending pin at one end, common means for locking the arm in either its slidable or rotatable position of adjustment, auxiliary means arranged to engage and hold one end of the arm, said auxiliary locking means comprising an inclined cross member secured to said frame and provided with L-shaped slots arranged to receive the laterally extending pin on the end of said arm, a laterally extending arc-shaped member secured to said arm and arranged to engage a portion of the frame for guiding the arm, and means carried by the frame for preventing the displacement of the guide means.

4. The combination with a desk seat frame, of a desk top, a supporting arm for said desk top pivotally mounted upon said frame and arranged to swing to bring said top into a horizontal position, said arm being movable horizontally while the top is in a horizontal position, and means carried by said arm and arranged to engage the frame for holding the arm in fixed position with respect to the frame in any of its positions of horizontal adjustment.

5. The combination with a desk seat frame, of a desk top, a supporting arm for said desk top pivotally mounted upon said frame and arranged to swing to bring said top into a horizontal position, said arm being movable horizontally while the top is in a horizontal position, means carried by said arm and arranged to engage the frame for holding the arm in fixed position with respect to the frame in any of its positions of horizontal adjustment, a curved guide member carried by the arm, and an L-shaped guide member carried by said frame and arranged to extend over said curved guide member for preventing the lateral movement of said arm with respect to the frame.

HENRY EASTMAN BENNETT.

Witnesses:
JOHN TYLER,
DAISY G. BENNETT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."