

May 8, 1923.

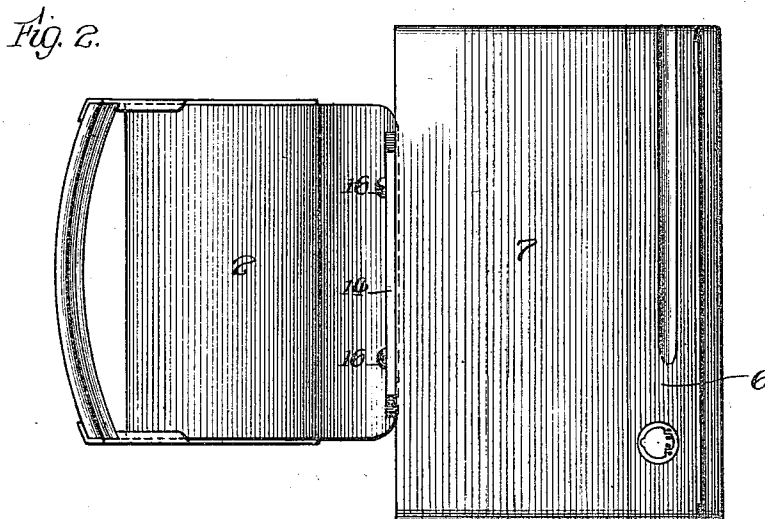
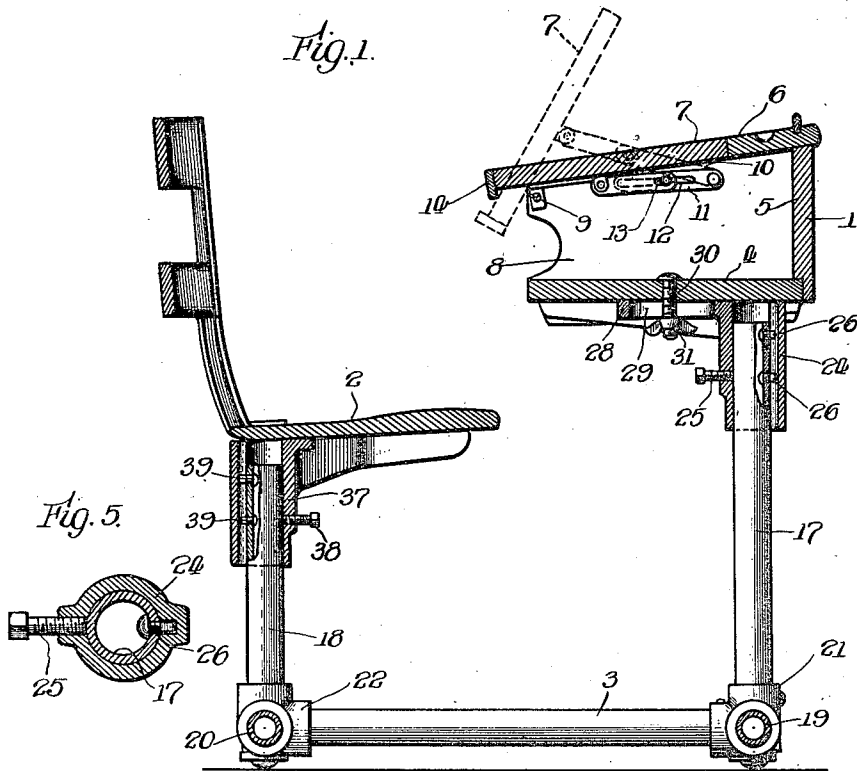
1,454,565

A. C. SANFORD

COMBINED DESK AND SEAT

Filed Aug. 7, 1920

2 Sheets-Sheet 1



Witness:
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Inventor:
Augustine C. Sanford,
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2 Sheets-Sheet 2

Fig. 3.

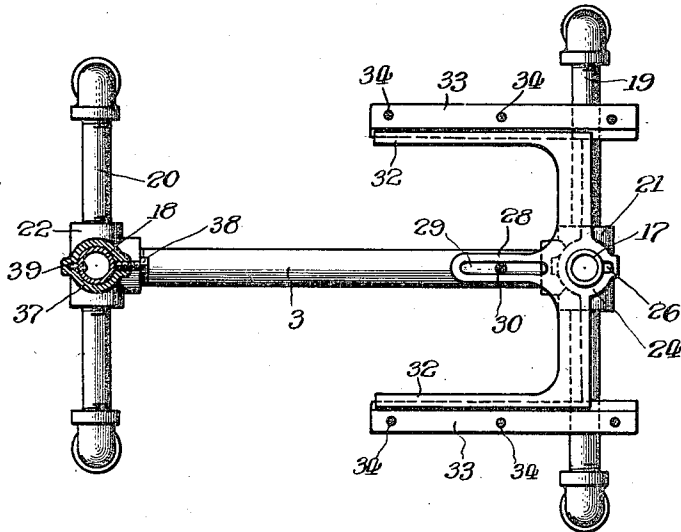


Fig. 4.

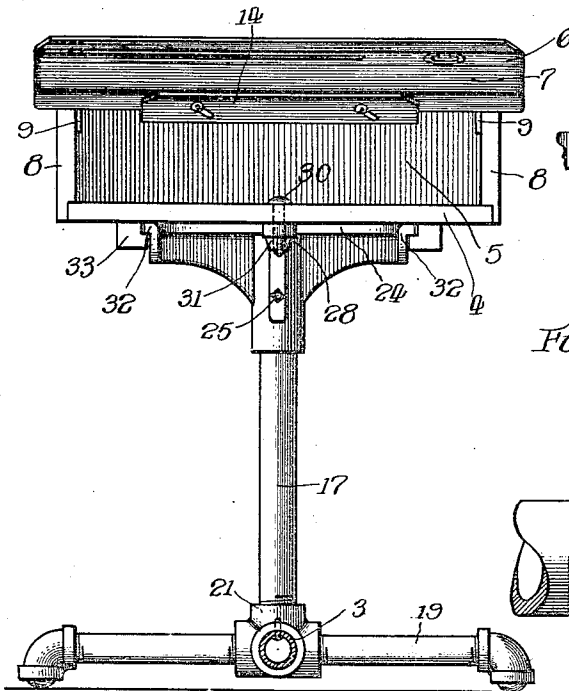


Fig. 6.

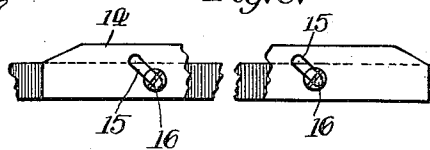
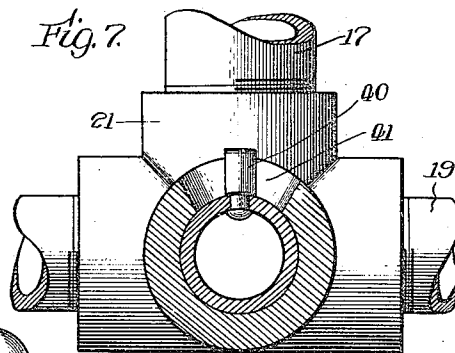


Fig. 7.



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UNITED STATES PATENT OFFICE.

AUGUSTINE C. SANFORD, OF CHICAGO, ILLINOIS.

COMBINED DESK AND SEAT.

Application filed August 7, 1920. Serial No. 401,879.

To all whom it may concern:

Be it known that I, AUGUSTINE C. SANFORD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Combined Desks and Seats, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to combined desk and seat, and particularly to the same as used in schools.

One of the objects of the invention is to provide a simple and practical construction of device of the class specified.

Another object of the invention is to arrange for the adjustment of the desk and seat relatively to one another so that the most advantageous relation or position of the two can be secured.

Another object of the invention is to arrange for the accommodation of the device to unevenness or irregularities of the floor on which the device is set.

Another object of the invention is to secure strength and rigidity of construction, and also to secure this result in a simple and inexpensive manner.

Another object of the invention is to arrange for the advantageous adjustment of the top of the desk and also to permit articles such as books or papers to be held in position on the desk top when same is adjusted.

In the accompanying drawings Fig. 1 is a vertical section of a combined desk and seat embodying my present invention;

Fig. 2 is a plan view of the same;

Fig. 3 is a plan view of the supporting structure of the device, with the tops of the desk and seat removed;

Fig. 4 is a transverse elevational view looking toward the desk from the seat; and

Figs. 5, 6 and 7 are views of details of construction.

Referring to the drawings, I show a device of the class specified comprising a desk body or box 1, and a seat 2, and a supporting and

connecting structure on which the same are mounted.

The desk body 1 is shown provided with a bottom 4, a front 5 and a top consisting of a fixed portion 6 and a hinged portion 7, said desk being also provided with side pieces or ends 8—8.

The hinged member 7 is preferably pivoted at 9 at or near its rear end so that it may swing around the same, as shown in dotted lines in Fig. 1. This permits said member 7 to be tilted so as to face a person sitting in the seat, and to permit its use as a support or desk for a book, paper or other object, in contradistinction to having the top of the desk pivoted to swing upward and away from the person sitting in the seat. Furthermore, the member 7 when swung upwardly opens the top of the desk, thereby permitting the insertion or removal of books or other articles from the same. Said member 7 is preferably provided with means for holding it in any desired adjusted position, the means shown consisting of links 10 and 11 pivoted to one another and to the member 7, the link 11 having a slot 12 provided with a thumb nut 13 by which the arrangement may be locked in adjusted position. The swinging member 7 is also preferably provided with the edge piece 14 having a transverse adjustment, as by means of the slots 15 and pins 16 (Fig. 6), permitting said piece 14 to be adjusted upwardly, as shown in dotted lines in Fig. 1, so as to serve as a support or ledge for books or other articles.

The frame structure is shown provided with a horizontal member 3 and upright members 17 and 18, the former being to support the desk 1 and the latter to support the seat 2. Transverse members 19 and 20 are also shown, the former at the desk end of the member 16 and the latter at the seat end of the same. These members 3, 17, 18, 19 and 20 are preferably tubular metal members, as for example, iron or similar pipe sections. They are secured together by means of joints or unions 21 and 22, which latter may be secured in various ways as by brazing, soldering or otherwise.

The connection between the desk 1 and the upright 17 is preferably such as to permit the vertical adjustment of the desk 1 relatively to member 17. This may be accomplished by providing the desk 1 with a tubular member 24 which fits and slides vertically on the upper end of the member 17. A set-screw 25 is shown for holding the member 24 in any vertically adjusted position. Other screws 26 are shown to hold the members 17 and 24 in proper spaced relationship. To secure vertical adjustment of the desk 1 the set-screw 25 is loosened and the desired adjustment made and then set-screw 25 is again tightened.

Horizontal adjustment of the desk 1 relatively to the member 17 and also relatively to the seat 2 is also preferably arranged for. The arrangement shown involves a horizontal projection or extension 28 on the upper end of the member 24, said member 28 being provided with a slot 29 in which a pin 30 is adapted to fit and work. The member 28 is on the under side of the bottom 4 of the desk 1, and the pin 30 extends through said bottom 4 and is provided with a thumb nut 31 by which the sliding joint made between the desk body 1 and member 28 may be tightened and loosened. The member 28 in part supports the desk 1 in addition to which guideways 32 are provided, these being on opposite sides of the desk 1. The under side of the desk is provided with guide strips 33—33 secured to the bottom 4 as by screws 34—34, the strips 33 cooperating with the guideways or slides 32 so as to permit and direct the sliding movement of the desk 1, such movement being toward and away from the seat 2. In order to adjust the desk 1 either toward or away from the seat 2 the thumb nut 31 is unscrewed so as to release the sliding connection and then the adjustment is made, after which the nut 31 is again tightened so as to lock the parts in adjusted position.

The seat 2 is also preferably arranged for vertical adjustment, the arrangement being substantially as described with reference to the vertical adjustment of the desk 1,—that is, the seat being provided with a tubular member 37 having a set-screw 38 and having spacing screws 39—39, the arrangement being such that adjustment of the seat 2 up and down the member 18 may be secured by unloosening the screw 38 and then making the adjustment, and then tightening the same.

As a matter of still further improvement, the arrangement is made to permit proper adjustments of the entire device to uneven places in the floor on which the device may be mounted. To such end the horizontal member 3 has a loose connection with the member 21, the end of the member 3 inserted in the member 21 being provided with a pin 40 (Fig. 7) and the socket of said member

21 being provided with a slot or groove 41 whereby said member 40 may have a limited amount of movement rotatively relative to the member 21. Thus, if the floor is uneven so that the four resting points formed by the opposite ends of the members 19 and 20 do not set properly, a slight adjustment will automatically take place by a small turning movement of the member 3, thereby automatically adjusting the device to the floor unevenness and preventing undesirable rocking or tilting of the device.

It will be understood that changes and modifications may be made without departing from the spirit of the invention.

What I claim is:

1. The combination of a tubular upwardly extending supporting member and a desk box having a socket mounted on said member, and means for fastening the socket and supporting member in vertical adjustment, said socket member being provided with a longitudinally extending recess formed in its inner face and extending only part way through same and the supporting member being provided with lateral projections adapted to fit in said recess, whereby relative rotation is prevented while relative vertical adjustment is permitted, said projections on said supporting member comprising adjustable screws passing through the wall of said tubular and adjustable member from inside the same, and a set screw to hold the desk box in vertical adjustment.

2. A device of the class specified, having a supporting structure comprising a horizontal tubular member, upright tubular members at the ends of said horizontal tubular member, a desk at the top of one tubular upright and a seat at the top of the other, cross tubular members also at the ends of said horizontal member, and four-way joints or couplings connecting said horizontal upright and cross tubular members, the connection of the horizontal member and the coupling or union for the desk upright being rotatable to permit relative adjustment of the desk and seat portions.

3. A device of the class specified, having a supporting structure comprising a horizontal tubular member, upright tubular members at the ends of said horizontal tubular member, cross tubular members also at the ends of said horizontal member, and four-way joints or couplings connecting said horizontal upright and cross tubular members, the connection of the horizontal member and the coupling or union for the desk upright being rotatable to permit relative adjustment of the desk and seat portions, and being provided with means for limiting rotation comprising a pin and a slot in which the pin may work.

4. A device of the class specified, comprising a longitudinally arranged metal

pipe, transverse metal pipes at the opposite ends of said first mentioned pipe, said transverse pipes being connected by couplings with the first mentioned pipe, elbows at the opposite ends of said transverse pipes to form short downwardly extending legs, upwardly extending pipes at the junctions of said longitudinal and transverse pipes, said upwardly extending pipes being connected with the other pipes by means of said couplings, a desk at the upper end of one upright pipe and a seat at the upper end of the other. 10

In witness whereof, I hereunto subscribe my name this 2nd day of July, A. D., 1920. 15
AUGUSTINE C. SANFORD.