Nov. 22, 1932. W. T. P. GEIGER 1,888,263

SCHOOL DESK

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Fig. 1.

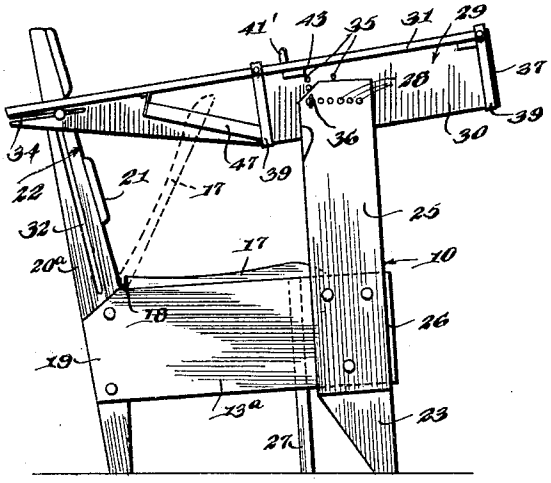


Fig. 3.

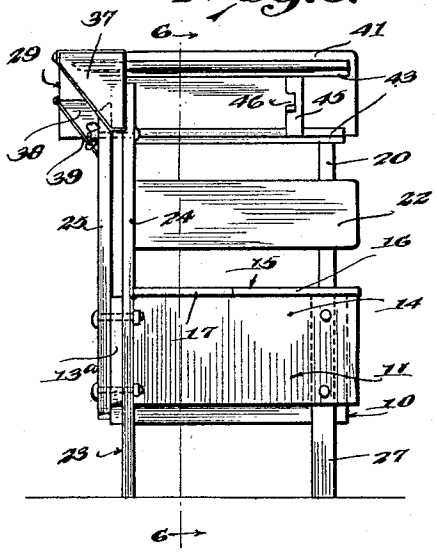


Fig. 5.

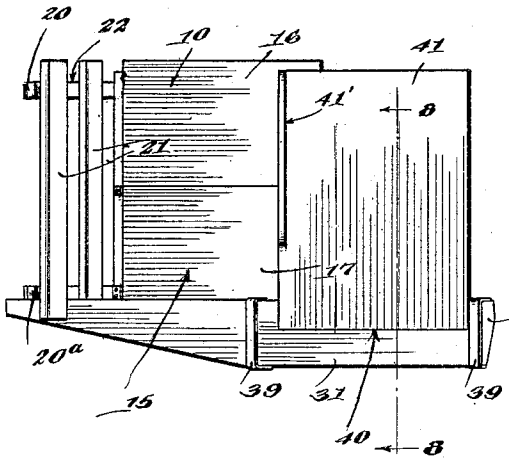
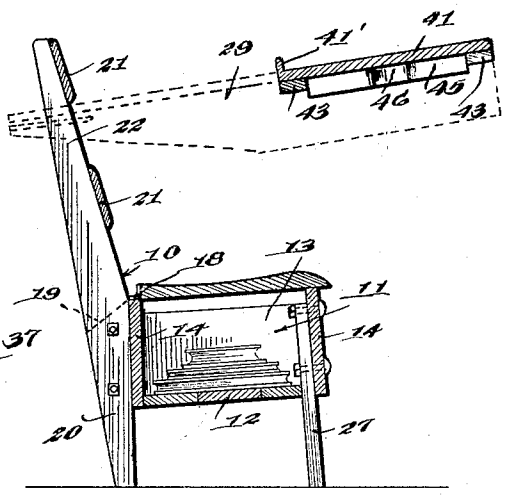


Fig. 6.



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Fig. 2.

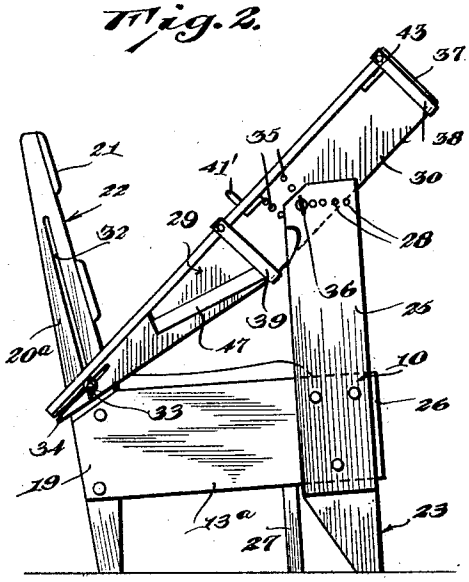


Fig. 4.

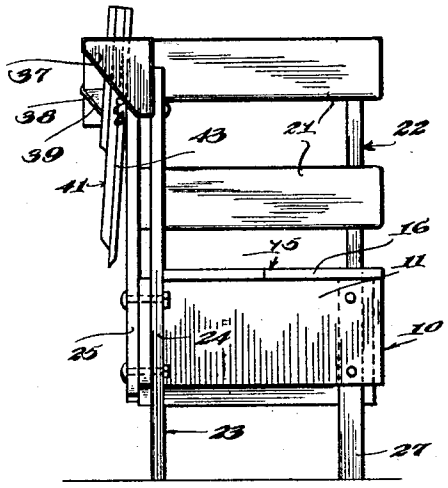


Fig. 7

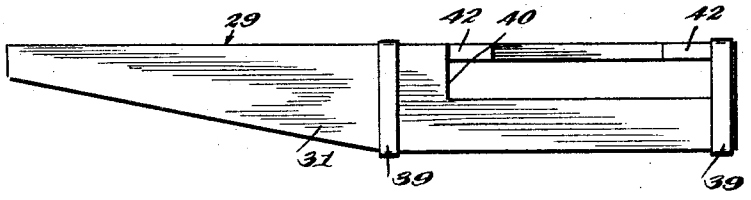
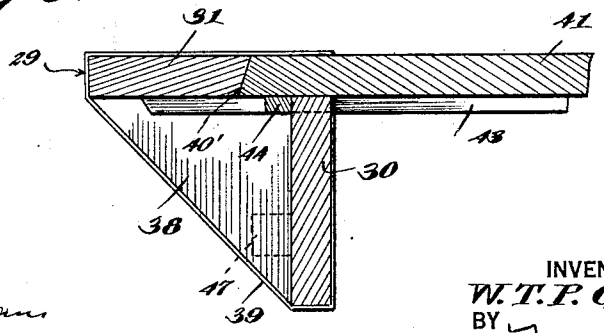


Fig. 8.



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UNITED STATES PATENT OFFICE

WASHINGTON THOMAS PARK GEIGER, OF FORT MYERS, FLORIDA

SCHOOL DESK

Application filed November 12, 1929. Serial No. 406,602.

My invention relates to school desks and more particularly, to a type wherein the table portion is adjustable, and it consists in the constructions, arrangements and combinations herein described and claimed.

It is an object of the invention to provide a combined school desk and chair wherein the table portion may be adjusted vertically as well as tilted horizontally to dispose the table portion at substantially right angles to the line of vision of an occupant, thus affording a comfortable posture of the user.

A still further object of the invention is the provision of a combined chair and desk wherein the table portion may be adjusted to assume a position upon the vertical side of the chair, so as to permit ready entrance into and exit from the chair.

Additional objects, advantages and features of the invention will be apparent from the following description considered in conjunction with the accompanying drawings, wherein,

Figure 1 is a side elevation of a chair constructed in accordance with my invention,

Figure 2 is a similar view illustrating the table portion of the desk adjusted for a ready position,

Figure 3 is a front view of the chair,

Figure 4 is a similar view, illustrating the table moved to the side of the chair to permit entrance or exit of a person to the chair,

Figure 5 is a top plan view of the chair,

Figure 6 is a vertical section on the line 6—6 of Figure 3,

Figure 7 is a top plan view of the arm,

Figure 8 is an enlarged cross section on the line 8—8 of Figure 5,

There is illustrated a combined desk and chair, generally indicated by the reference character 10, the seat proper comprising an oblong box 11 including a bottom 12, end walls 13 and 13ª and side walls 14. Upon the top sides of the end walls 13—13*a* and side walls 14, a seat 15 is secured. The seat is formed in two sections, 16 and 17, as clearly illustrated in Figs. 3 and 5. The section 16 is fixed to the side and end walls, while the section 17 is hingedly mounted, upon the rear wall 14, as at 18 (see Fig. 6).

The end walls 13 and 13ª project beyond one of the side walls 14, as at 19, to accommodate rear legs 20 and 20ª which are secured thereto. The legs 20 and 20ª project upwardly beyond the seat 11, and these together with the back boards 21 constitute a back rest 22. The inclination of the back rest 22 and the curvature of the boards 21 is such as to afford the greatest possible comfort to an occupant. The top board 21 projects slightly beyond the right hand leg member 20ª, (as viewed in Figs. 1 and 5) while the bottom board 21 stops flush with the side of the leg member 20ª. The projecting end of the board 21 acts as a stop, limiting upward movement of the arm rest 29 as will be apparent.

A front leg 23 composed of a pair of suitably shaped boards 24 and 25 are arranged upon opposite sides of the projecting forward end 26 of the end wall 13ª. The boards 24 and 25 are suitably bolted to the end 26, as shown.

Upon the opposite front end of the desk, a leg 27 is suitably secured interiorly of the seat, so as to provide a smooth surface.

Attention is now directed to Figs. 3 and 4, wherein it will be seen that the boards 24 and 25 are held in spaced relation by the end 26 and project upwardly a considerable distance above the seat 11. The upper ends of the boards 24 and 25 are provided with a plurality of aligned openings 28.

An adjustable arm 29 is mounted between the back rest 22 and the leg member 23 and comprises a board 30 and arm rest 31. The board 30 is arranged edgewise and at one edge thereof, the arm rest 31 is secured by screws, or otherwise. The board 30 and rest 31 are of a length to extend from beyond the rear leg member 20ª to a point well in advance of the front leg member 23.

The leg member 20ª is provided with a longitudinal slot 32 extending from the top of the seat 11 to a point closely adjacent the top board 21, and in this slot, there is a bolt 33 cooperating with a slot 34 formed in the rear end of the board 30, as clearly shown in Figs. 1 and 2.

A plurality of apertures 35 are provided

in the board 30, arranged in vertical rows, these apertures being adapted to align with apertures 28 of the members 24 and 25 for reception of a bolt 36.

The bolts 33 and 36 are each provided with wing nuts or the like, permitting ready tightening or loosening, as the case may be.

To provide a finished appearance and to brace the arm 29, a triangular shaped facing board 37 is secured across the front ends of the members 30—31, and a similarly shaped brace 38 is secured intermediate the length of the arm 29 to afford rigidity to the structure. If found necessary the members 30—31 may be encircled by metal straps 39, these straps preferably, also embracing the braces 37—38, as shown.

The arm rest 31 is cut away as at 40 to accommodate a table 41, and the board 30 is provided upon its upper edge with a pair of recesses 42 within which there is disposed guide bars 43 secured upon the underside of the table 41.

Preferably, the rear wall 40′ of the slot 40 is inclined and the mating end of the table 41 is similarly shaped for snug alignment when in operative position, as shown in Fig. 8. A stop 44 is fixed upon the underside of the table 41 and is adapted to engage the board 30 when the table is drawn into operative position. A cross rail 45 is secured upon the opposite end of the table 41 and functions as a stop when the table is disposed in inoperative position, by virtue of its engagement with horizontal edge of the board 30. The rail 45 also includes a hand hold 46.

A book rest 41′ is provided upon the table 41 to support books or the like, when the table is adjusted at an inclination.

In order to accommodate pens and pencils or the like, a suitable box 47 is secured beneath the arm rest 31.

From the foregoing description, it will be apparent that the table may be adjusted to various angles with respect to the seat, by selection of adjustment of the arm 29 upon the upstanding members 24—25, the rear portion of the arm 29 being moved correspondingly within the slot 32. The arm 29 may be secured in its adjusted positions by tightening the wing units of respective bolts 33—36.

In the use of my device, it will be assumed that an occupant is desirous of leaving the seat. He grasps the table 41 at the hand hold 46, lifting upwardly thereon, and at the same time giving it a sliding movement. It will be apparent that upon upward lift of the table the mating edge of the table and the arm rest will be separated, and that the table will be free to slide downwardly through the slot 40. The table 41 is permitted to slide downwardly until the cross rail 45 engages and rests upon the board 30, where it will be securely retained in suspended position upon the side of the chair 10. The occupant will then be free to leave his seat without encountering any obstructions whatsoever.

To return the table 41 to its operative position, the table is grasped at the hand hold 46 as before, pulling upwardly, thereon until the stop 44 engages the top edge of the board 30. At this point the table 41 is allowed to swing downwardly before the occupant. In the downward movement of the table, it will be noted that the top edge of the board 30 acts as a fulcrum, and when the table reaches its final position, coacts with the mating edges of the arm 31 and table 31 to rigidly support the same.

It will be readily appreciated that I have provided a combined desk and table which may be cheaply constructed, and one which may be quickly adjusted to dispose the table portion at various angles.

I claim:—

1. A combined chair and desk comprising a framework defining a chair having a slotted back rail, a support forwardly of said framework and carried thereby and including spaced vertical members, a table having an arm pivoted between said members, said arm having a slot at one end thereof adapted to align with the slot in said back rail, means for securing said arm in adjusted positions upon said back rail, said spaced members and said arm having apertures for adjustment of said arm to dispose said table at various inclinations, and means for securing said arm to said spaced members.

2. A combined chair and desk comprising a framework defining a chair having a back and seat, a support forwardly of said framework, an adjustable arm connected between said back and said support, said arm having a slot formed in the upper side and extending longitudinally thereof, a table slidable within said slot for disposition transversely of said seat, means for limiting outward sliding movement of said table, and means for suspending said table from said arm.

3. A combined chair and desk comprising a framework defining a seat and back, said seat including a forwardly extending side member, a pair of vertically disposed members secured to said side member, one being disposed upon respective sides of said side member and extending above said seat to provide a spaced support, one of said members forming a leg for said chair, an arm pivoted between said spaced members and adjustably mounted upon said back and a table carried by said arm.

4. A combined chair and desk comprising a framework defining a seat and back, said back including an upright member having a slot extending from a point adjacent said seat and terminating at a point in proximity to the upper end of said upright, a support

secured to said seat and in advance thereof, said support having a plurality of spaced apertures, an arm, said arm being mounted upon said support and including a plurality of horizontally spaced apertures for registry with a selected aperture of said support, fastening means extended through alined apertures for pivotally securing said arm to said support, said arm further having a slot for registry with the slot of said upright member, and means for securing said arm to said upright in various adjusted positions.

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