

J. M. STUBBLEFIELD.
SCHOOL SEAT AND DESK.
APPLICATION FILED DEC. 15, 1911.

1,073,718.

Patented Sept. 23, 1913.

2 SHEETS—SHEET 1.

Fig. 1.

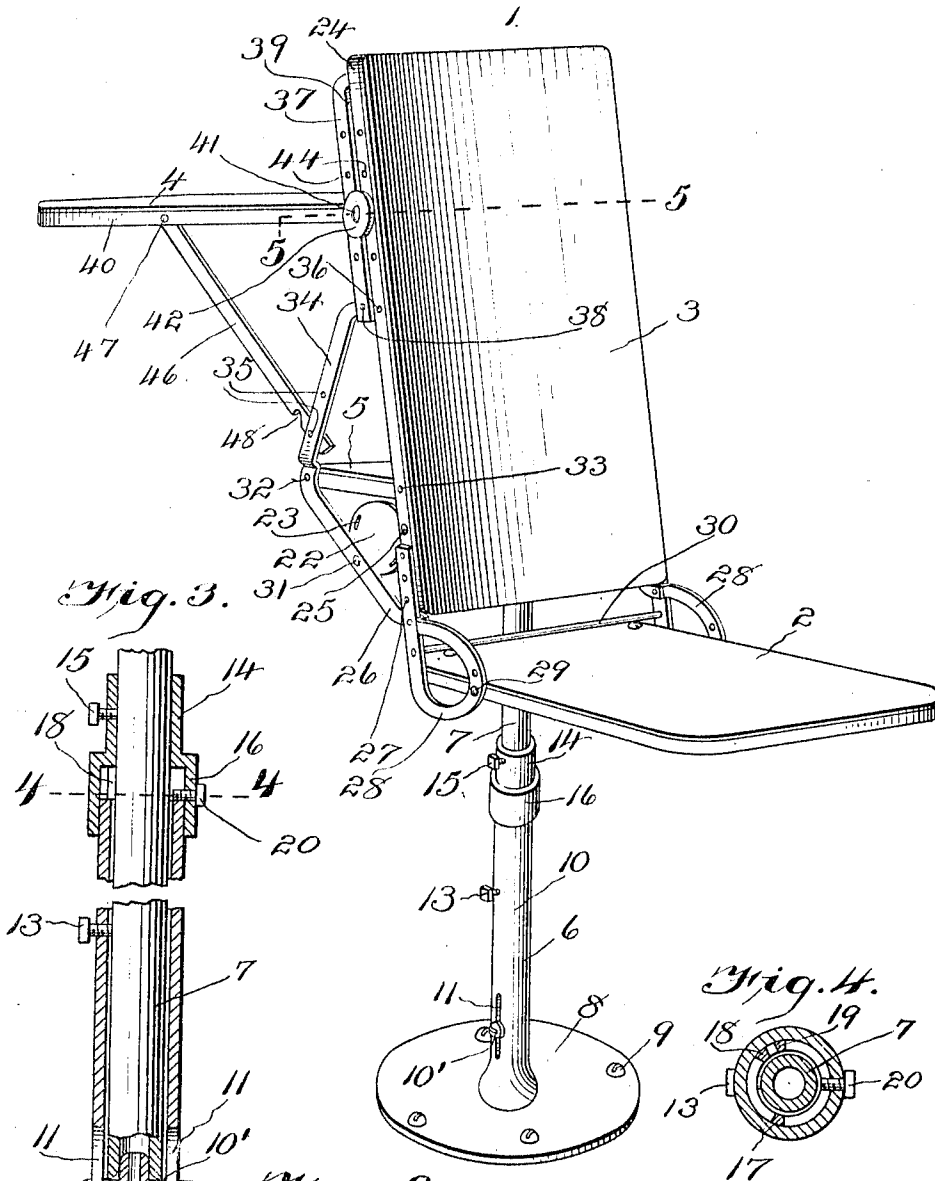


Fig. 3.

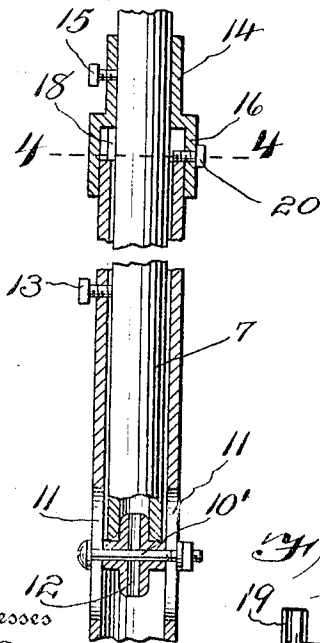


Fig. 8.

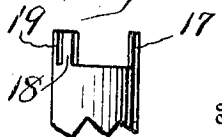
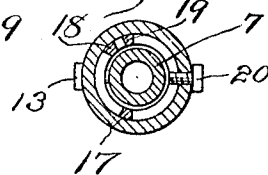


Fig. 4.



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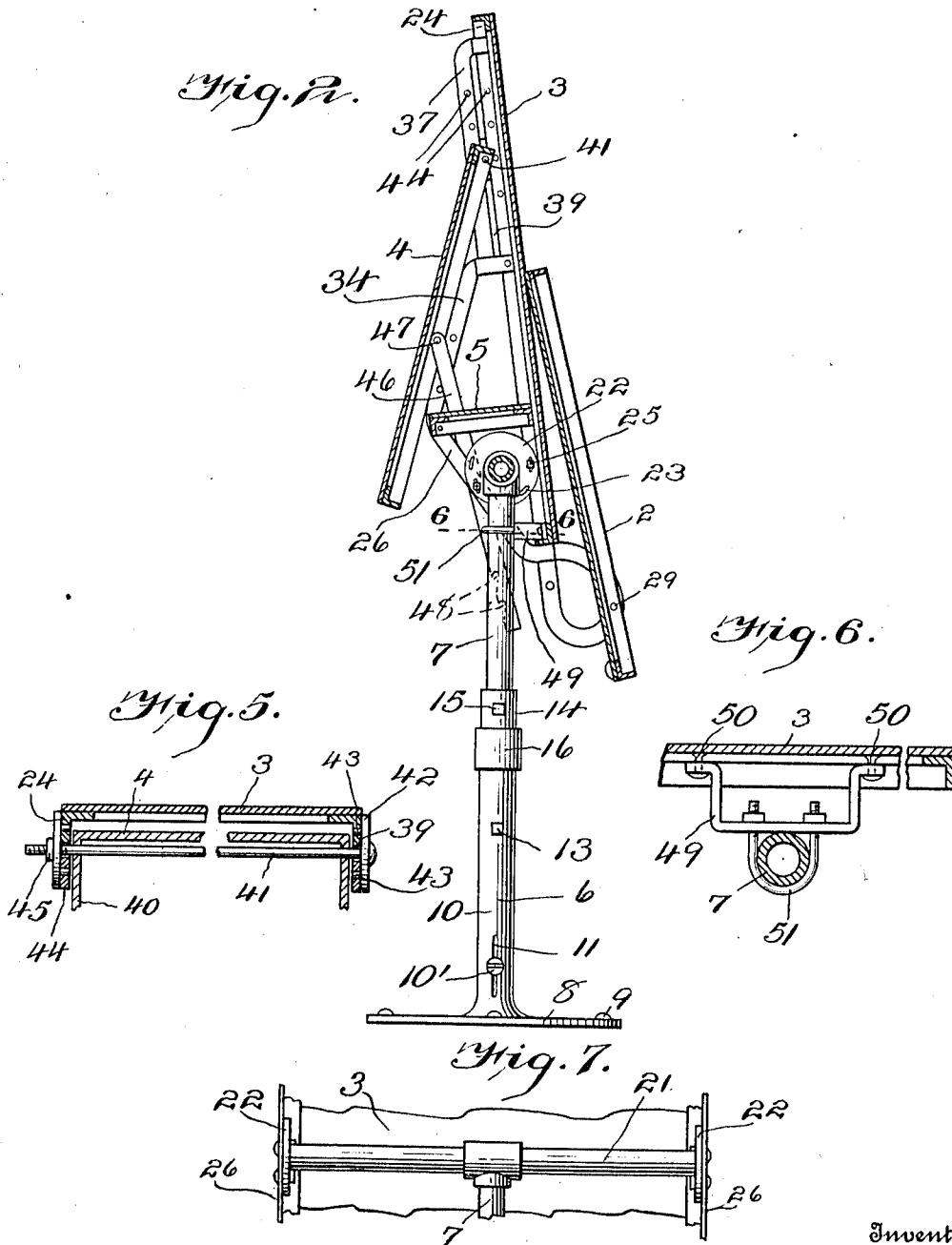
C. C. Dwyer

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2 SHEETS-SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN M. STUBBLEFIELD, OF PAWHUSKA, OKLAHOMA.

SCHOOL SEAT AND DESK.

1,073,718.

Specification of Letters Patent.

Patented Sept. 23, 1913.

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To all whom it may concern:

Be it known that I, JOHN M. STUBBLEFIELD, a citizen of the United States, residing at Pawhuska, in the county of Osage and State of Oklahoma, have invented a new and useful School Seat and Desk, of which the following is a specification.

This invention relates to combined school seats and desks and has for its object to provide a device of this class which is practically indestructible and which is so arranged and constructed as to present ready adjustability of the height of the seat from the floor in order to adapt the seat to pupils of varying ages.

A further object of the invention is to provide a novel arrangement for limiting and varying the amount of swing of the desk and seat in the stationary base.

A further object of the invention is to provide a simple arrangement for adjusting the angularity of the seat.

A further object of the invention is to provide a simple and effective construction for adjusting the height of the desk and the angularity thereof irrespective of the height of the seat so as to adapt the desk to pupils of varying ages irrespective of the height of the seat.

With all these objects in view the invention consists in the novel construction of a combined school seat and desk, which is of a material preferably metal, in such manner as to produce a strong, rigid, durable and efficient construction and which is adjustable so that the height of the seat can be adjusted in relation to the floor, the angularity of the seat can be adjusted, while the height and angularity of the desk can be adjusted independently of the other adjustments; and the invention further consists in the novel and simple construction which provides for a compact folding of the seat and the desk.

The invention also consists in certain other novel details of construction and in combinations of parts, all of which will be first fully described and afterward specifically pointed out in the appended claims.

Referring to the accompanying drawings: Figure 1 is a perspective view of a combined school seat and desk constructed in accordance with this invention. Fig. 2 is an elevation partly in section illustrating the seat and desk in a folded position. Fig. 3 is an enlarged fragmentary vertical sectional

view taken through the upper portion of the permanent base and the lower portion of the slidable base. Fig. 4 is a transverse sectional view taken on line 4—4 of Fig. 3. Fig. 5 is a transverse sectional view through the seat back taken on line 5—5 of Fig. 1. Fig. 6 is an enlarged transverse sectional view taken on line 6—6 of Fig. 2. Fig. 7 is a rear elevation of the T portion of the supporting base, and Fig. 8 is a fragmentary elevation of the upper portion of the supporting base.

Like numerals of reference indicate the same parts throughout the several figures in which;

1 indicates the combined seat and desk which comprises the seat 2, back 3, desk 4, book shelf 5, base 6 and vertically adjustable supporting post 7. The base 6 is flanged at 8 to provide a large base or support and said flange 8 is preferably secured in position by screws 9. Extending upwardly and centrally of the flange 8 is the tubular portion 10 of the base, said tubular portion 10 being provided near its lower end with a pair of oppositely disposed vertical slots 11 designed to accommodate a transverse bolt 10' which transverse bolt 10' secures within the tubular portion 10 a stop 12 as shown in Fig. 3. Entering the tubular portion 10 is the adjustable post 7 which, as will appear from Fig. 3, engages the stop 12, the vertical adjustment of the said post 7 being effected by means of the transverse bolt 10' within the slots 11 as will be apparent from an inspection of Fig. 3. In order to secure the post 7 within the tubular portion 10 of the base a set screw 13 is provided, while there is also provided on the said post 7 a sleeve 14 which carries a set screw 15 for securing the said sleeve 14 against movement on the post 7, the lower portion 16 of said sleeve being enlarged as shown in Fig. 3 to encompass the upper end of the tubular portion 10 of the base.

Referring particularly to the upper end of the tubular portion 10 of the base and in this connection to Figs. 4 and 8 it will be seen that the upper end of the tubular portion 10 of the base is provided with three vertical extensions 17, 18 and 19, while it will be seen that a set screw 20 is carried in the enlarged portion 16 of the sleeve 14, the said set screw 20 entering the said vertical extensions on the upper end of the tubular portion 10 of the base as shown in Fig. 4 and for a pur-

pose which will be presently described. At the upper end of the supporting base 7 is provided a cross piece 21 as shown in Fig. 7, while a flange 22 is provided at each end of the said cross piece 21, said flanges being provided with a plurality of elongated slots 23 as shown in Fig. 2.

Referring now to the back 3 it will be seen that the same is bordered with an angle-iron border 24, and referring to Fig. 2 it will be seen that the said angle-iron border of the back 3 is bolted to the flanges 22 on the ends of the cross piece 21 by bolts 25. It will be also seen by reference to Figs. 1 and 2 that a piece of strap metal 26 is securely bolted or riveted at 27 to the lower portion of the angle-iron border 24 of the back 3 which is formed into a loop 28 to which loop the seat 2 is pivoted at 29, while a cross rod 30 connects the two loops 28 in such manner as to engage the inner end of the seat 2 when the said seat is in an open position as shown in Fig. 1. The said strap metal 26 extends rearwardly and upwardly from the bottom edge of the back 3 and is bolted at 31 to the flanges 22 on the cross piece 21 of the supporting base 7, while the book shelf 5 is rigidly fastened to the said strap metal 26 at the point 32 and to the angle-iron border of the back 3 at the point 33. Above the book shelf 5 the strap metal 26 is turned toward the seat 3 to provide an inclined piece 34 which is provided with inwardly extending pins 35. The extreme upper end of the strap metal piece 26 is bent into engagement with the angle-iron border of the back 3 to which it is secured at 36 in the manner as shown in Figs. 1 and 2. Secured near the upper edge of the back 3 at both sides thereof is a piece 37 which extends downwardly and which is secured at 38 to the strap iron piece 26, a slot 39 being provided between said piece 37 and the angle-iron border 24 of the back 3.

Referring now to the desk 4 and particularly to Fig. 5, it will be seen that the same comprises an angle-iron border 40 carrying a transverse rod 41 which transverse rod 41 passes through the slot 39 in the back 3, while flanges 42 are provided on said rod 41, said flanges 42 being provided with inwardly extending pins 43 which enter perforations 44 in the parts 24 and 37 adjacent the said slots 39, a nut 45 on the rod 41 securing the parts together in the manner as shown in Fig. 5. A pair of braces 46 pivoted at 47 to the border 40 of the desk 4 and, of course, thereunder, support the same in the manner as shown in Fig. 1, the said braces 46 being provided at their lower ends with a plurality of notches 48 which engage the pins 35 on the portion 34 in order to adjustably hold the desk 4 in the desired adjusted position.

Referring now to Fig. 6 it will be seen

that an offset or staple-like metal strap 49 securely fastened at 50 to the back 3 at the lower edge thereof is provided to carry a clip 51, which clip surrounds and embraces the supporting post 7 in the manner as shown in Figs. 2 and 6.

Having thus fully described the invention its operation is as follows: As will be apparent from an inspection of Figs. 1 and 3 the post 7 is adjustable in relation to the permanent base 6 in such manner that the height of the seat 2 can be adjusted vertically in relation to the floor. It will also be seen that when it is desired to maintain the post 7 against rotation in the tubular portion 10 of the base the set screw 13 is caused to engage the said post 7 to lock the post 7 and tubular portion 10 firmly together. When, however, it is desired to permit rotation of the post 7 in relation to the tubular portion 10 of the base the same can be accomplished by loosening the set screw 13 and tightening the set screw 15 in the sleeve 14, thus locking the sleeve 14 to the post 7. The set screw 20 in the enlarged portion of the sleeve 14 passes inwardly in the manner as shown in Fig. 3 and lies between two of the upwardly extending extensions 17 and 19 in the manner as illustrated in Fig. 4. When the parts are in this position the post 7 and its sleeve 14 are capable of a partial rotation on the tubular portion 10 of the base or until the set screw 20 engages the upwardly extending extensions 17 and 19 which extensions act as stops to limit the extent of rotation as will be apparent from an inspection of Fig. 4. When, however, the sleeve 14 is reversed in such manner that the said screw 20 enters between the upward extensions 17 and 18 the extent of rotation is restricted as the said extensions 17 and 18 are arranged closer together than the extensions 17 and 19. When, however, the set screw 20 enters between the extensions 18 and 19 all rotation of the post 7 in the tubular portion 10 is prevented as will be clearly apparent from an inspection of Fig. 4. The vertical adjustment of the post 7 being effected in the manner as just described the angularity of the back 3 is adjusted by means of the bolts 25 and 31 in the flanges 22 on the cross piece 21 of the post 7, said bolts 25 and 31 passing through the elongated slots 23 in said flanges allow a sufficient angular adjustment of the back 3 to meet all ordinary requirements. The angle of the seat 2 however is adjustable independently of the back 3 by means of an alteration of the pivotal point 29 in the loop 28 in the manner as is apparent from Fig. 1.

In order to adjust the height and angularity of the desk 4 irrespective of the height and angularity of the back 3 the nut 45 on the cross bar 41 (Fig. 5) is slacked away until the pins 43 on the flanges 42 are out of

engagement with the perforations 44 adjacent the elongated slot 39. Said transverse rod 41 and its flanges 42 are then capable of vertical adjustment in the slot 39 and can be
 5 locked in any desired position upon the entrance of the pins 43 on the flanges 42 in any desired perforations 44 adjacent the slots 39. By means of this construction the desk 4 can be raised or lowered as desired
 10 irrespective of the height or adjustment of the seat and back, while the angularity of the desk 4 is controlled by the notched supports 46 in engagement with the pins 35 on the piece 34.

15 Having thus fully described the invention it is apparent that the same is capable of changes and alterations which would come within the limit and scope of this invention and I consider myself clearly entitled to all
 20 such changes and modifications as fall within the terms of the following claims.

What I claim as new and desire to secure by Letters Patent of the United States is:—

25 1. In a device of the type described, the combination with a seat and its back, of supporting means therefor including an up-

right having at its upper end a transverse member provided at its ends with flanges, a member having pivotal supporting connection with said seat and fixed connection with
 30 said back, means effecting adjustable connection between said flanges and said seat-pivotal-supporting member, and means effecting adjustable connection between said flanges and said back.

35 2. In a device of the type described, the combination with a seat and its back, of supporting means therefor including an upright having at its upper end a transverse member provided at its ends with flanges having
 40 slots therein, a member having pivotal supporting connection with said seat and fixed connection with said back, and adjusting screws engaging said slots of the flanges, effecting adjustable connection between said
 45 pivotal supporting members and said flanges, and adjustable connection between said back and said flanges, respectively.

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