

(No Model.)

M. D. NELON.
COMBINED DESK AND SEAT.

No. 541,982.

Patented July 2, 1895.

Fig. 3.

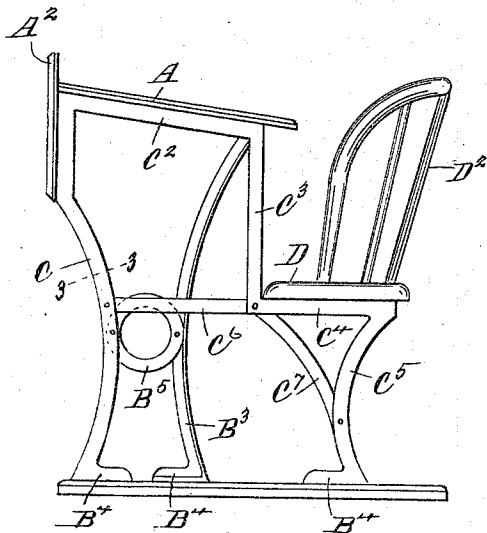
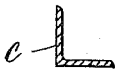


Fig. 2.

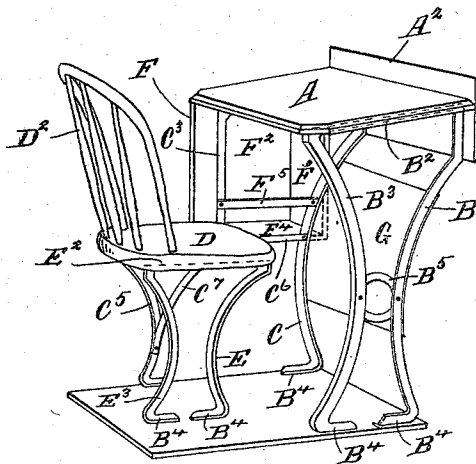


Fig. 1.

Witnesses

Wm. E. Jones
H. Smith

Inventor

Michael D. Nelson
by *Thos. Hubbell Fisher*
Attorney

UNITED STATES PATENT OFFICE.

MICHAEL D. NELON, OF CINCINNATI, OHIO.

COMBINED DESK AND SEAT.

SPECIFICATION forming part of Letters Patent No. 541,982, dated July 2, 1895.

Application filed January 2, 1895. Serial No. 533,556. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL D. NELON, a citizen of the United States, and a resident of the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in a Self-Supporting Combined Desk and Seat for School and other Purposes, of which the following is a specification.

The several features of my invention and the various advantages resulting from their use conjointly, or otherwise, will be apparent from the following description and claims.

In the accompanying drawings, making a part of this application, and in which similar letters of reference indicate corresponding parts, Figure 1 is a view in perspective of a desk and seat embodying and illustrating my invention. Fig. 2 is an elevation of that side of the said seat and desk which is farthest from the beholder in Fig. 1, with the box F removed. Fig. 3 is a section showing the angle-iron.

A indicates the top of the desk, preferably made of wood, as shown. The desk is preferably provided with a front board A². One side of the desk is supported by the continuous angle-iron B B³ B³. B constitutes one leg, B³ the other leg, and B² the portion connecting the leg B to leg B³.

The desk rests directly upon the portion B² of angle-iron and is secured thereto, preferably by screws, in any well-known manner. Each of the legs B B³ is bolted inward, as shown, and are connected together at or a little below their mid-length by a circular brace B⁵. The lower end of each leg B B³ is provided with a foot B⁴, consisting of angle-iron bent in a horizontal position, substantially as shown. Preferably the two feet B⁴ B⁴ of these legs B³ point toward each other, as shown. These feet are thus out of the way of the person entering between the desk A and the chair when about to occupy and use the same.

The seat of the chair just referred to is indicated by the letter D and its back (of any suitable form) by the character D².

Under the near side of the chair, Fig. 1, is a suitable support, as the angle-iron E E² E³—E and E³ constituting, respectively, the legs and E² the piece connecting the top of the legs E and E³ together. Each leg is provided

with a suitable foot B⁴, and these feet are preferably formed, as shown, out of the same angle-iron as the leg by bending the same in a horizontal position and are preferably turned toward one another, so as to be out of the way.

The legs E and E³ are curved toward one another, substantially as shown. The curving of the legs E³ and E, as shown, affords more space and hence greater facility to the operator for entering between the chair and the seat, especially when the seat is located close to the desk, as must be the case in crowded rooms and where the seat is fixed in a stationary manner to the floor. In such cases the seat must be sufficiently close to the desk to bring the chair in position for easily and conveniently using the top A of the desk in reading, writing, &c.

The curving of the legs B and B³ are of special advantage in connection with other rows of desks and seats in front of and behind the one mentioned.

Turning attention to the other side of the desk and of the seat, C indicates a front leg of the desk, curved similarly to the leg B and for a similar reason. The lower end of this leg C is provided with a foot B⁴, constructed similarly to the feet B⁴ previously mentioned. This leg C is continued up to the desk, then extends across under the top A of the desk, (the said upper portion being lettered C²), and is then continued downward from the rear end or portion of the desk to just below the seat D of the chair. The said iron is then bent into a horizontal position, constituting portion C⁴, which extends to the rear of the chair seat and immediately under the same. The iron is then continued downward in the form of a leg C⁵, terminating in the foot B⁴. The leg C⁵ is curved forward similarly to the leg E³ heretofore mentioned, and the foot B⁴ is constructed similarly to the foot B⁴ of the said leg B³ and is bent forwardly, so as to be out of the way. A brace C⁶ extends from the legs C to the lower end of the upright C³, where it is connected to the latter and then extends downward obliquely to the leg C⁵ in the neighborhood of the foot B⁴ of the leg, thereby forming a brace C⁷, and at the point of junction with the said leg C⁵ is suitably bolted thereto. All of this con-

struction, consisting of the parts C, C², C³, C⁴, C⁵, C⁶, and C⁷, is preferably made of angle-iron.

The seat D rests directly on the parts C⁴ D² and is secured thereto by screws, bolts, or other suitable means.

When desired, instead of angle-iron other descriptions of iron rods or strips may be used; but I prefer angle-iron, because it constitutes by itself a rod having great stiffness against lateral deflection in every direction, and at the same time affords convenient surface for the attachment of it to the top parts A A² of the desk and the seat D of the chair.

The parts represented here by iron may be constructed of other metal or tough wood.

It may also be remarked that to the front side of the legs B and C there may be applied a board G for the whole or part of the distance between the top of the desk and the floor to prevent the scholar occupying the rear seat and desk from disturbing the scholar in the front seat with his or her feet. This will also be a good lateral brace.

When desired, the full brace B² and the full brace E² and the full brace C² and the full brace C⁴ may be omitted, and all the portions of said brace sufficient to connect the desk top to its legs and braces and the seat to its leg and braces be retained.

In connection with this desk and as taking advantage of the construction hereinbefore described, I provide a receptacle for books, slates, &c., as follows: F is the receptacle, of which F² is the outer side of the receptacle, F³ the front end, and F⁴ the bottom thereof. The top of side F² is fixed to the side edge portion of the desk top A and the bottom of said side is connected to the outer side edge of the bottom piece F⁴. The front piece F³ is connected at top to the desk and outer side to the piece F² and below to the front edge of the bottom piece F⁴. The bottom piece is connected at its inner side to the brace C⁶. The overlapping portion of the desk top from the leg C and brace C³ to the outer adjacent edge of the desk presents a very convenient opportunity for the location there of this box, as shown. The said leg C and braces C³ and C⁶ afford obvious means of support and division. When desired, an additional brace F⁵ may be extended from leg C to brace C³ higher up, to more fully inclose the space devoted to this receptacle F.

The advantages of my invention are, most of them, obvious upon a comprehension of the foregoing construction. Some of these advantages are as follows: By means of the bracing shown on the side of the chair, Fig. 2, and already described I am enabled to dispense with one of the four legs of the table and with the adjustment of the same to the floor. I am also enabled to make a combined structure of the desk and seat and so brace them together that each of them has a firmer face than either of them would have when standing alone.

The bracing C³ C⁶ also furnishes a guard on that side of the seat, thereby confining the occupant within the proper limits of the seat. At the same time the entrance on the other side of the combined seat and chair is made very convenient of access, the chair being placed near to the desk and working position in reference thereto, and the occupant can enter the space between the chair and desk and occupy the chair without being compelled to lift the seat of the chair upward, as is now usually the case where the seat is fixedly located in working position near to the desk.

In the manufacture the leg C on cross-supports C², brace C³, cross-supports C⁴, and leg C⁵ are preferably made in one continuous piece, while the brace C⁶ and the brace C⁷ are made in one piece. Thus the entire bracing on this side of the combined seat and desk consists of only two pieces.

What I claim as new and of my invention, and desire to secure by Letters Patent, is—

1. A combined desk and seat each supported on one and the same side by its own independent legs, and on the other side supported by the front leg C of the desk, rear leg C⁵ of the seat, horizontal brace C⁴ directly beneath the seat, and brace C³ connected to the front end of brace C⁴ and to the rear end of the upper part of the desk structure, and brace C⁷ extending from the lower part of brace C⁵ to the front part of brace C⁴, substantially as and for the purposes specified.

2. A combined desk and seat each supported on one and the same side by its own independent legs, and on the other side supported by the front leg C of the desk, rear leg C⁵ of the seat, horizontal brace C⁴ directly beneath the seat, and brace C³ connected to the front end of brace C⁴ and to the rear end of the upper part of the desk structure, and brace C⁷ extending from the lower part of brace C⁵ to the front part of brace C⁴, and brace C⁶, extending from the front end of brace C⁴, across to front brace C, substantially as and for the purposes specified.

3. A combined desk and seat each supported on one and the same side by its own independent legs, and on the other side by the front leg of the desk, legs under the seat, and a cross piece C⁶ connected rigidly to the seat support, and to the front leg of the seat, and the brace C³, connected to the rear portion of the desk and to the cross brace C⁶, substantially as and for the purposes specified.

4. A combined desk and seat each supported on one of the same sides by its own independent legs, and on the other side supported by the leg C⁵, braces C³, C⁷ and C⁶, and desk leg C substantially as and for the purposes specified.

5. A combined desk and seat each supported on one and the same side by its own independent legs and on the other side by the front desk leg C, desk cross brace C², upright brace C³ and cross brace C⁶ supported by the front desk leg, and the seat supporting leg whereby

the rear portion of said cross brace C⁶ is supported, substantially as and for the purposes specified.

6. A self supporting combined desk and seat, where on one side of the chair is supported on the leg C⁵, the desk is supported on the leg C and intervening bracing consisting of the support as C³ from the rear end of the desk to the front portion of the seat and a
10 brace from the latter to the leg C⁵, supported on suitable supports, substantially as and for the purposes specified.

7. In combination with the desk top A, leg C and braces C³ and C⁶, the receptacle at the
15 side of the desk outside of said leg and braces consisting of the side F, and front F³ and bottom F⁴ connected substantially as described, as and for the purposes specified.

8. In combination with the desk top A, leg C and braces C³ and C⁶, the receptacle at the
20 side of the desk outside of said leg and braces consisting of the side F, and front F³ and bottom F⁴ connected substantially as described, and the additional brace F⁵ between leg C
25 and brace C³, substantially as and for the purposes specified.

9. The combination of the fixed desk and seat, one side suitably supported, and on the other supported on two legs only, one from
30 the table and one from the seat, and an intervening horizontal brace crossing from the leg of the desk directly to the seat, and then from the seat downward to the leg of the latter, substantially as and for the purposes specified.
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10. The combination of the fixed desk and seat, one side suitably supported, and on the other supported on two legs only, one from
40 the table and one from the seat, and an intervening horizontal brace crossing from the leg of the desk directly to the seat, and then from the seat downward to the leg of the latter, and a vertical brace from this horizontal
45 brace to the rear part of the desk, substantially as and for the purposes specified.

11. In a combination desk and seat, the combination at one side of the following pieces or
50 braces, to wit: leg C forming the front leg of the desk, the desk having a top A, vertical brace C³ supporting the rear portion of the top of the desk and connected to horizontal brace C⁴ directly beneath the seat, the latter connected to the upright leg C⁵ forming the leg
55 of the seat, the pieces C³, C⁴, C⁵, being integral, substantially as and for the purposes specified.

12. In a combination desk and seat, duly supported on one side, the combination on the
60 other side of pieces or braces as follows, leg C forming the front leg of the desk, vertical brace C³ supporting the rear portion of the top of the desk, horizontal brace C⁴ directly

beneath the seat and leg C⁵, the pieces C³, C⁴, C⁵, being integral, and horizontal brace C⁶ extending from the leg C to the braces C⁴, C³,
65 substantially as and for the purposes specified.

13. In a combination desk and seat, duly supported on one side, the combination on the
70 other side of pieces or braces as follows, leg C forming the front leg of the desk, vertical brace C³ supporting the rear portion of the top of the desk, horizontal brace C⁴ directly beneath the seat, and brace C⁵ forming a leg of the seat, the pieces C³, C⁴, C⁵, being integral, and horizontal brace C⁶ connected at its
75 front end to the leg C and connected to braces C⁴, C³, and extending down into brace C⁷, the latter in turn connected to the leg C⁵, the pieces C⁵ and C⁷ being integral, substantially as and for the purposes specified.

14. In a combined desk and seat suitably supported on one side, the combination on the
80 other of pieces or braces as follows, the front leg C supporting the front portion of the desk, rear leg C⁵ supporting the rear portion of the seat, brace C⁷ sprung from the lower portion
85 of the brace C³ extending diagonally forward to the front of the seat, vertical brace C³ supporting the rear end of the seat and in conjunction with brace C⁷ to which it is connected, and cross bracing between the seat D
90 and the front leg C for preventing any tendency of the seat D to incline forward and spring out of position, substantially as and for the purposes specified.

15. In a self-supporting combined desk and seat, the combination on one side of the leg
95 B, cross brace B² and leg B³, provided with feet B⁴, in one continuous piece, braced by the brace B⁵ for supporting one side of the desk top A, the chair provided with the leg
100 E, cross brace E² and rear leg provided with feet B⁴, all in one continuous piece for supporting the adjacent side of the chair seat D, and on the other side the front leg C, cross
105 brace C² for supporting the other side of the desk top A, vertical brace C³ from the rear end of the desk top to the forward portion of the chair, rearwardly extending brace C⁴ under the chair seat and leg C⁵ extending from
110 the rear portion of the chair seat downwardly, the said legs C, C⁵ being respectively provided with feet B⁴, all made in one continuous piece, and the cross brace C⁶ extending from the leg C to the foot of the brace C³,
115 there united to the leg, and then extending downward to the leg C⁵ and there connected to the said leg, substantially as and for the purposes specified.

MICHAEL D. NELON.

Attest:

WM. E. JONES,
CHARLES F. SPIEGEL.