No. 703,792. Patented July 1, 1902.

J. W. JOHNSTON.

ADJUSTABLE SEAT AND DESK.

(Application filed June 27, 1901.)

(No Model.)

Fig. 1.

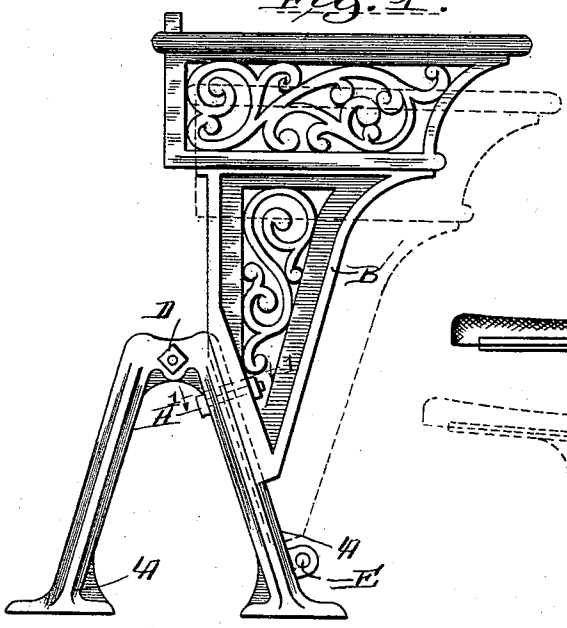


Fig. 1a.

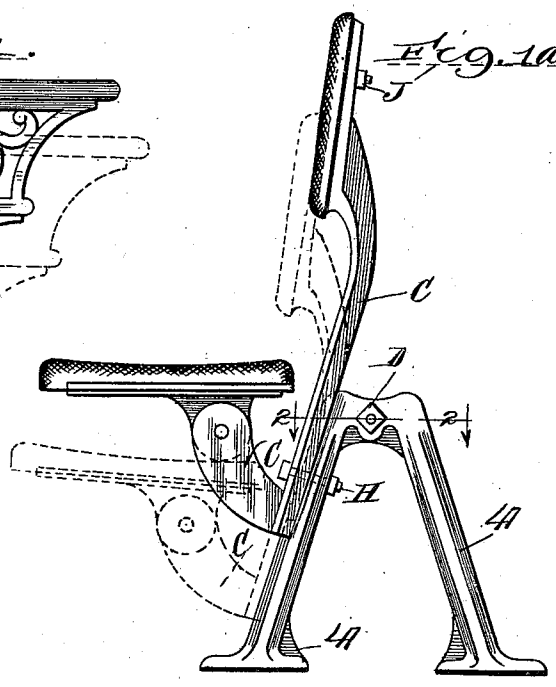


Fig. 2.

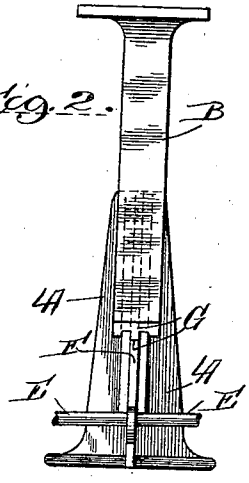


Fig. 4.

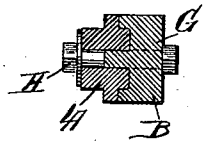


Fig. 3.

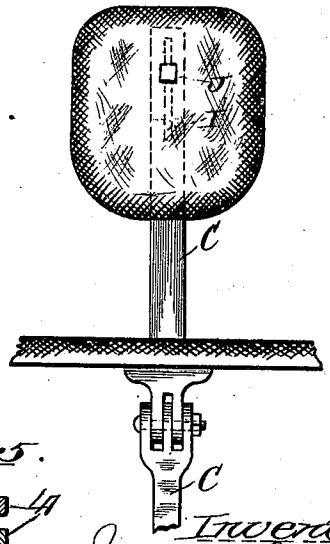
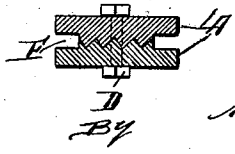


Fig. 5.



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UNITED STATES PATENT OFFICE.

JAMES W. JOHNSTON, OF CHICAGO, ILLINOIS.

ADJUSTABLE SEAT AND DESK.

SPECIFICATION forming part of Letters Patent No. 703,792, dated July 1, 1902.

Application filed June 27, 1901. Serial No. 66,304. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. JOHNSTON, a citizen of the United States, residing at No. 3553 Hamilton avenue, in the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Adjustable Seats and Desks, which are to be used mainly for school purposes, of which the following is a specification.

The object of my invention is to provide a desk and seat mainly for school purposes which will be strong and firm in position, cheap in construction, which will occupy a minimum of floor-space, and be easily adjustable vertically and horizontally to suit the best hygienic requirements as to the physical attitude of the pupils and students while using them.

The manner in which I accomplish my object is set forth in the following specification, so that any one skilled in the art may understand and construct the same, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of the desk and its supports. Fig. 1ª is a side elevation of the seat and its supports. Fig. 2 is a front elevation of the base and bracket supporting the desk. The base and connecting part of the bracket here shown are symmetrically the same in the base and bracket supporting the seat. Fig. 3 is a front elevation of the seat, seat-hinge, back-rest, and supporting-bracket. Fig. 4 is a cross-section view of the base and bracket through the line 1 1, Fig. 1, and is symmetrically the same through the same parts in Fig. 1ª. Fig. 5 is a cross-section view of the head of the base through the line 2 2, Fig. 1ª.

The essential elements of my invention are in the angular construction of the base A and the connecting parts of the brackets B and C. The base and brackets may be of any design or material, provided those parts of the base and brackets which connect together and constitute the adjustable parts are constructed with a vertical angle of about sixty degress. With this vertical angle of the base and corresponding angles of the connecting parts of the desk and seat brackets all variations of height, width, and form are subordinate and may be designed to conform to any special requirements of space or taste.

The base A, Figs. 1, 1ª, and 2, is constructed, preferably, in two equal vertical parts and in such shape that when joined together at the head by the bolt D, Figs. 1, 1ª, and 5, and at the foot by the foot-rest holder E, Figs. 1 and 2, the two parts form a vertical slot in each face of the vertical angle of the base, as shown at F, Figs. 2, 4, and 5.

The parts of the brackets B and C which connect with and rest on the base A are each constructed with bearing-surfaces and tongue, which fits in the slot F, and each with two grooves which fit over the raised faces of the base, as shown at G in Fig. 2 and in section, Fig. 4. The base and brackets thus constructed are adjustable vertically one upon the other and are held firmly together in the desired position by the bolt and nut H, Figs. 1, 1ª, 2, and 4.

The dotted figures, Figs. 1 and 1ª, illustrate the vertical and horizontal adjustment secured by the movement of the brackets on the vertical angles of the base A.

The bracket C is constructed with a slot I, Fig. 3, so as to provide for the vertical adjustment of the back-rest, which is held in position by the bolt J.

When the parts described and illustrated are properly constructed and connected together and properly affixed to the floor, the vertical and horizontal adjustment of both the seat and desk can be easily made to fit either the average or the individual size of the pupils or students using them.

Having thus illustrated and described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination in an adjustable desk and seat of a desk-supporting bracket, a bearing-surface on said bracket arranged at a vertical angle of about sixty degrees, a central vertical tongue, two vertical grooves, one on each side, and parallel with said tongue, said tongue and grooves forming the said bearing-surface of said bracket; an aperture transversely through the said tongue and bearing-surface, a threaded bolt adapted to pass through and fit said aperture, and a nut adapted to fit said bolt, with a base com-

prising two vertical parts, each of said parts having corrugated projections arranged to fit into each other and to form the head of said base, an aperture passing transversely through the head of said base, a threaded bolt adapted to pass through said aperture, and a nut adapted to fit said bolt and to fasten the two vertical parts of said base together, the feet of said base being similarly joined; a vertical bearing-surface arranged at an angle of about sixty degrees, a central vertical slot formed by the joining together of the said parts extending from the foot to the head of said base adapted to receive and to engage the vertical tongue of said bracket, and the said bearing-surface of said base being adapted to enter and to be engaged by the vertical grooves in said bracket, the bracket being adjustable vertically on said base and arranged to be affixed thereon in the position desired by the bolt and nut, substantially as described.

2. The combination in an adjustable desk and seat of a seat-supporting bracket, a bearing-surface on said bracket arranged at a vertical angle of about sixty degrees, a central vertical tongue and two vertical grooves, one on each side and parallel with said tongue, the said tongue and grooves forming the said bearing-surface of said bracket, an aperture transversely through said tongue and bearing-surface, a threaded bolt adapted to pass through and fit said aperture, and a nut adapted to fit said bolt, with a base comprising two vertical parts, each of said parts having corrugated projections arranged to fit each other and to form the head of said base; an aperture passing transversely through the head of said base, a threaded bolt adapted to pass through and fit the said aperture, and a nut adapted to fit said bolt and to fasten the two vertical parts of said base together, the feet of said base being similarly joined, a bearing-surface arranged at a vertical angle of about sixty degrees, a central vertical slot formed by the joining together of said parts extending from the foot to the head of said base, adapted to receive and to engage the vertical tongue of said bracket, and the said bearing-surface of the said base being adapted to enter and to be engaged by the vertical grooves in said bracket, the bracket being adjustable vertically on said base and arranged to be affixed thereon in the position desired by the bolt and nut H, substantially as described.

3. The combination with a seat and a desk, of supporting-brackets having bearing-surfaces constructed with a vertical angle of about sixty degrees, the bearing-surfaces of each of said brackets having a tongue and grooves, and having an aperture passing transversely through each of said tongues and bearing-surfaces, and a base constructed to stand upon and to be affixed to the floor, and having bearing-surfaces forming a vertical angle of about sixty degrees, said bearing-surfaces in the said base having each a vertical slot extending from the foot to the head of said base, the said bearing-surfaces and slots being adapted to receive and fit the tongues and grooves of the said brackets, so as to allow of the vertical and horizontal adjustment of the said brackets, desk and seat, and a bolt and nut adapted to pass through the said slots in the base and through the transverse aperture in the bearing-surfaces of said brackets for the purpose of holding each of said brackets in the position desired on each of said bases, substantially as and for the purposes specified.

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