No. 651,693. Patented June 12, 1900.

V. BERFORD.

DESK AND SEAT.

(Application filed Apr. 21, 1899.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

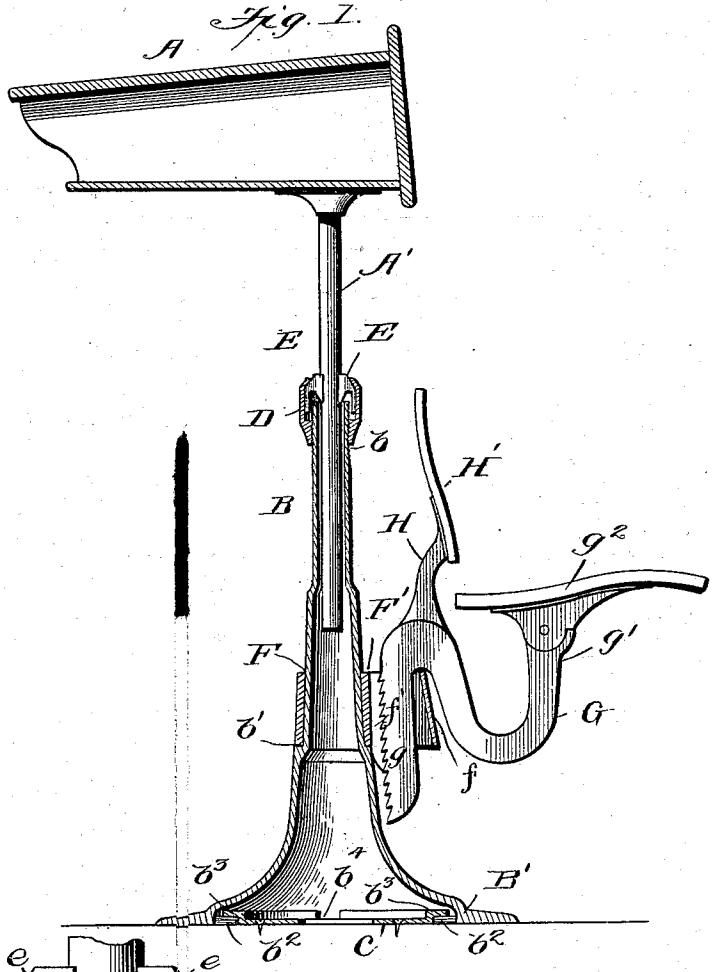


Fig. 2.

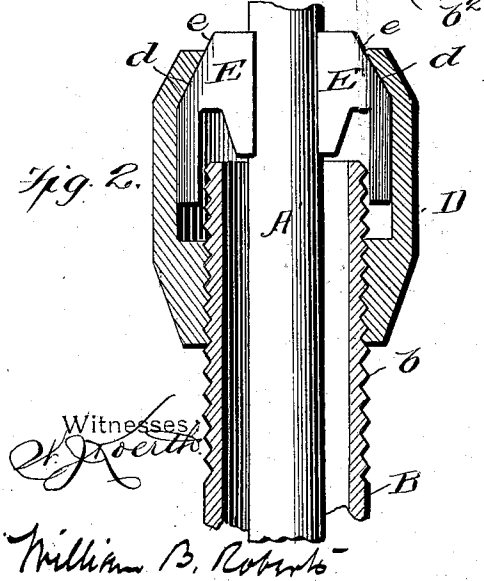
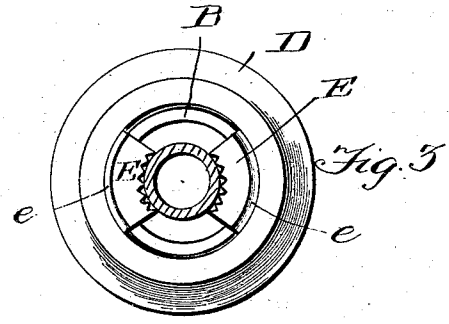


Fig. 3.



Witnesses:
W. J. Coeth.
William B. Roberts.

Victor Berford, Inventor
By Marion & Marion
Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 651,693. Patented June 12, 1900.

V. BERFORD.

DESK AND SEAT.

(Application filed Apr. 21, 1899.)

(No Model.) 2 Sheets—Sheet 2.

Fig. 4.

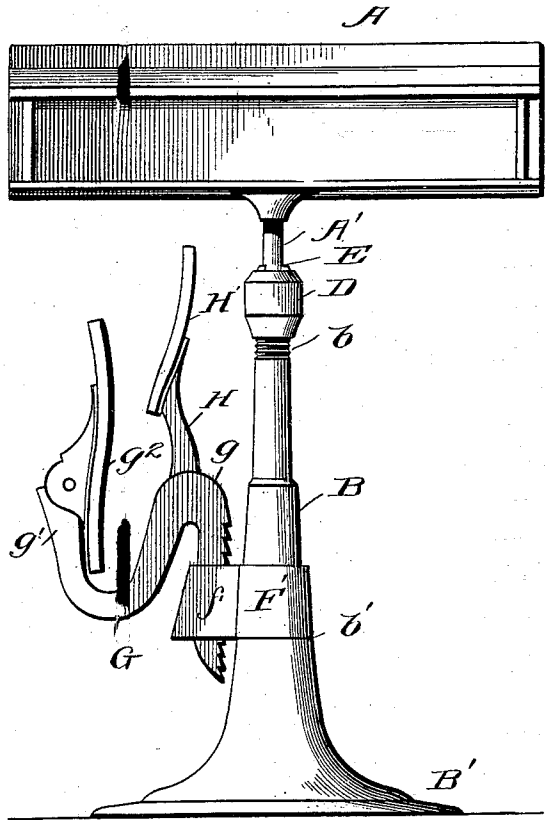
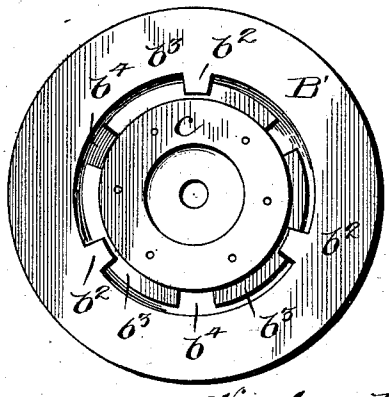


Fig. 5



Witnesses:

D. Roath.

William B. Roberts.

Victor Berford, Inventor

By Marion & Marion

Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

VICTOR BERFORD, OF TARA, CANADA.

DESK AND SEAT.

SPECIFICATION forming part of Letters Patent No. 651,693, dated June 12, 1900.

Application filed April 21, 1899. Serial No. 713,999. (No model.)

To all whom it may concern:

Be it known that I, VICTOR BERFORD, a subject of Her Majesty the Queen of Great Britain, residing at Tara, in the county of Bruce, Province of Ontario, Canada, have invented certain new and useful Improvements in Desks and Seats; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to desks and seats therefor primarily intended for the use of schools, but which are equally applicable for other uses.

One object of the invention is to provide a desk which may be quickly and easily adjusted in both a vertical and a horizontal plane and one which may also be entirely removed from the floor when necessary.

A further object is to provide a seat which may be adjusted vertically to meet the requirements of the occupant and which may also be adjusted horizontally to bring it at any desired angle to the desk or which may be swung around beneath the desk, so as to be out of the way.

A further object is to provide a simple and efficient means for securing the desk in its adjusted position, and, finally, the object is to provide an adjustable desk and seat which shall be compact, convenient, and consist of few parts, the whole being simple in construction, easy to operate, and economical to manufacture.

To these ends the invention consists in an improved adjustable desk and seat constructed and combined substantially as hereinafter illustrated and described, and finally defined in the appended claims.

Referring to the drawings, in which similar letters of reference refer to similar parts in all of the views, Figure 1 is a vertical central section of the improved adjustable desk and seat, the seat and its supporting-bracket being shown in elevation. Fig. 2 is an enlarged view, partly in section, showing the means for locking the desk in its adjusted position. Fig. 3 is a top view thereof. Fig. 4 is a rear elevation showing the seat folded and swung around beneath the desk. Fig. 5 is an under view of the base of the desk-support, showing the detachable securing means.

In the drawings, A represents a desk, of any ordinary or preferred construction, supported by a rod A′, rigidly fixed to the under side thereof. This rod A′ is adapted to be vertically and horizontally adjusted within a hollow supporting-standard B, the upper portion of which is provided upon its exterior with an ordinary screw-thread b. About midway of the standard B is an annular shoulder b', above which the standard is turned true, so as to afford a bearing for the seat-support F′, as will be hereinafter described. The bottom of the standard B is formed into a broad circular base B′, upon the inner rim of which is provided a series of inwardly-projecting lugs b^2, which are adapted to engage with the flanges b^3, formed upon the periphery of a base-plate C, which is adapted to be rigidly secured to the floor. The flanges b^3 are intercepted at suitable points by the recesses b^4, which when brought into alinement with the lugs b^2 permit of the engagement and the disengagement of the standard with respect to the base-plate, thus permitting the ready placing and removal of the desk and seat, which is a very important and desirable feature where large numbers of desks are in use and where it is sometimes necessary to remove the same, as in the case of large halls or school-rooms, in which the floor-space is occasionally needed for other purposes.

Upon the threaded end of the standard B is applied an interiorly-threaded binding-nut D, the upper portion of the interior of which is chambered for the reception of the clamping-dogs E, whose inner faces are curved to conform with curvation of the supporting-rod A′ and toothed or serrated upon said inner faces to permit the firm clamping of the said rod A′. The clamping-dogs E are recessed back of their clamping-faces to receive the end of the supporting-standard B in case it should project too far up within the binding-nut D. The upper and outer faces e of the clamping-dogs are inwardly beveled or inclined to correspond with a similar bevel or inclined surface d upon the upper face of the recessed portion of the binding-nut D.

By means of this construction it will be seen that when the binding-nut is turned down the inclined or beveled surfaces *d* will coact with the corresponding beveled surfaces *e* of the clamping-dogs to force them into engagement with the supporting-rod A'. A reverse movement will of course release said clamping-dogs from their engagement with the supporting-rod A' and permit the desk to be raised or lowered vertically and also to be revolved around in either direction in a horizontal plane.

About the bearing F of the supporting-standard B is rotatably sleeved the seat-support F', so as to rotate freely thereon. A lug *f* projects from one side of said support, which is slotted to receive the downwardly-extending serrated arm *g* of the seat-bracket G, said arm *g* being adapted to mesh with the serrated face *f'* of the slotted lug *f*. The slot or recess in the lug *f* is of greater width at the bottom than at the top, which provides space in which to swing the arm *g* from engagement with the serrated face *f'* of the slotted lug *f* when it is desired to vertically adjust the seat. The bracket G is curved downwardly and then outwardly and upwardly from the arm *g*, and to the outer and upper end *g'* of the bracket is hinged the seat portion g^2. At a suitable point upon the bracket G is fixed the upwardly-extending support H of the back-rest H', which is suitably constructed and located to best subserve its intended purpose.

In view of the explicit description above given it is believed the operation of the various features of the invention will be readily understood without further explanation.

While I have herein shown a preferred form of carrying my invention into effect, yet I do not desire to limit myself to such preferred details of construction, but claim the right to use any and all modifications thereof which will serve to carry into effect the objects to be attained by this invention in so far as such modifications and changes may fall within the spirit and scope of my said invention.

I claim—

1. A combined adjustable desk and seat, comprising a tubular standard; a desk provided with a supporting-rod adapted to be adjustably sleeved within said tubular standard; means for locking said rod in its adjusted position; a shoulder formed on said tubular standard; a bearing arranged above said shoulder; a seat-support loosely sleeved about said bearing; a recessed lug integral with said seat-support, and having upwardly-inclined serrations upon its inner face; a seat-bracket having at its inner end a depending arm, and provided with downwardly-inclined serrations adapted to engage with the serrations of said lug, and a seat portion pivoted to the outer end of said seat-bracket, substantially as described.

2. A combined adjustable desk and seat, comprising a tubular supporting-standard; a desk provided with a supporting-rod, adapted to be adjustably sleeved within said tubular standard; means for locking said rod in its adjusted position; a seat-support loosely sleeved upon said tubular standard; a seat-bracket adjustably mounted in said seat-support; means for locking said seat-bracket in its adjusted position; a series of inwardly-projecting lugs arranged upon the interior of the base of said tubular standard; a base-plate provided with an annular flange intersected by radial slots, which are adapted to receive and release said lugs upon the rotation of said standard, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

VICTOR BERFORD.

Witnesses:
C. J. MICKLE,
J. J. LILLICO.