(No Model.)

W. F. SPIETH.

ADJUSTABLE SCHOOL DESK.

No. 590,076. Patented Sept. 14, 1897.

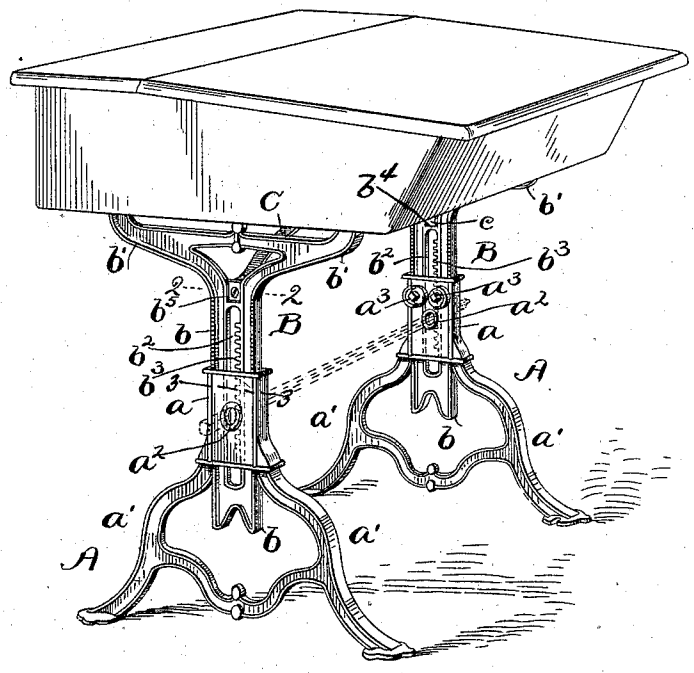
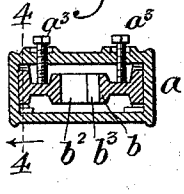


Fig. 1.

Fig. 3.



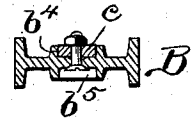
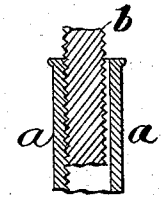


Fig 2.

Fig. 5.



Witnesses
E. B. Gilchrist
H. M. Rankin

Inventor.
William F. Spieth
By E. L. Thurston
his atty.

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

UNITED STATES PATENT OFFICE.

WILLIAM F. SPIETH, OF CLEVELAND, OHIO.

ADJUSTABLE SCHOOL-DESK.

SPECIFICATION forming part of Letters Patent No. 590,076, dated September 14, 1897.

Application filed November 16, 1896. Serial No. 612,393. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. SPIETH, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Adjustable School-Desks; and I do hereby declare the following to be 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.

The object of my invention is to provide a cheap adjustable desk which may be easily and quickly raised or lowered on both sides simultaneously through a wide range and secured at any desired point.

The invention consists in the construction and combination of parts hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view of my improved desk; and Figs. 2, 3, and 4 are enlarged sectional views of the desk standard and housing, taken on the lines 2 2, 3 3, and 4 4, respectively.

Referring to the parts by letters, A represents the floor-standards. These standards consist of a vertical housing a, through which the stem of the desk-standard passes, and two diverging legs a', which extend equally in front of and behind said housing. Centrally-placed holes a^2 pass transversely through both housings, these holes being adapted to permit the passage of an operating-shaft (shown in dotted lines in Fig. 1) and to furnish bearings for such shaft. Two set-screws a^3 a^3 screw through one side of the housing and impinge against the stem of the desk-standard.

Since the legs a' project equal distances in front of and behind the housings and the holes a^2 are centrally placed in said housings, both standards are alike and may be cast from the same pattern. Each has an inner side through which the set-screws a^3 pass, but the front and back sides are alike.

The desk-standards B B consist each of a stem b and two diverging arms b' b'. The stems b of the desk-standards are vertically movable through the housings a, and in each stem is formed a transverse vertical slot b^2, which is in line with the holes a^2—that is to say, the operating-shaft passing through the holes will pass through the slots. One vertical wall of the slot is fashioned with rack-teeth b^3, and the operating-shaft engages with these rack-teeth on both stems, wherefore both sides of the desk may be simultaneously moved up or down.

In the upper end of the stem at the point where the arms join it are the recesses or depressions b^4 b^5, in opposite sides thereof. The foot c of a brace C fits into the recess in the inner face of the stem, (b^4, for example,) and is secured thereto by a screw or bolt, which passes through the stem and foot, its head lying in the other recess b^5.

From the foregoing description it will be seen that the desk-standards B are also alike, and consequently interchangeable. To use the left standard on the right side, however, it is not necessary to turn it around, as one must turn one of the floor-standards to use it on the opposite side.

The inner wall of each housing is transversely serrated, while both sides of the stem are correspondingly serrated. By virtue of this construction the serrated wall of the housing will be in contact with a serrated side of the stem whether the desk-support be used upon one side or the other of the desk. The set-screws a^3 by pressing against the stems force these serrated surfaces into contact, and thus prevent any slipping of the stems.

Having described my invention, I claim—

1. In an adjustable desk, the combination of two floor-standards, each consisting of a housing and two diverging legs, said housings having transverse holes for the reception of an operating-shaft, with two desk-standards each consisting of a stem which is movable up and down through the corresponding housing, and has at its upper end diverging arms whereby it is adapted to be secured to a desk-body, each stem being substantially an I-beam having a longitudinal slot through its web and rack-teeth on one edge of the slot, and two set-screws screwing through said housing and bearing against the web of said I-beams between the flanges thereof and the said slot therein, substantially as described.

2. In an adjustable desk, the combination of two floor-standards, each consisting of two inclined legs and a vertical housing with

which the upper ends are integrally connected, said housing having transverse holes for the passage of an operating-shaft, with the desk-standards, consisting of a stem and two diverging arms on the upper end of the stem, said stem having a vertical slot one wall of which is provided with rack-teeth, a brace secured to the upper end of each stem, and a desk secured to the said arms and braces, substantially as and for the purpose specified.

3. In an adjustable desk, the combination of the two floor-standards, each consisting of a vertical housing at its upper end, and two legs which project equally in front of and behind said housing, said housing having the holes through their side walls, with the desk-standards, each consisting of a vertical stem, and two arms for connection with the desk, the said stem having a transverse vertical slot and rack-teeth on one side of said slot, the standard being provided at its upper end with recesses on both sides to receive the foot of a brace, substantially as and for the purpose specified.

4. In an adjustable desk, the combination of two floor-standards, each consisting of a vertical housing, and two diverging legs, said housing having transverse holes through both side walls, and interior horizontal serrations on one side wall, and two set-screws which screw through the other side wall, with two desk-standards, each consisting of a stem and two diverging arms on its upper end, said stem having a transverse vertical slot with rack-teeth on one edge, and horizontal serrations on both side faces of the stem, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM F. SPIETH.

Witnesses:
E. L. THURSTON,
E. B. GILCHRIST.