F. W. ELSE.

SCHOOL DESK AND SEAT.

APPLICATION FILED OCT. 23, 1914.

1,176,667.

Patented Mar. 21, 1916.

2 SHEETS—SHEET 1.

Fig. 1,

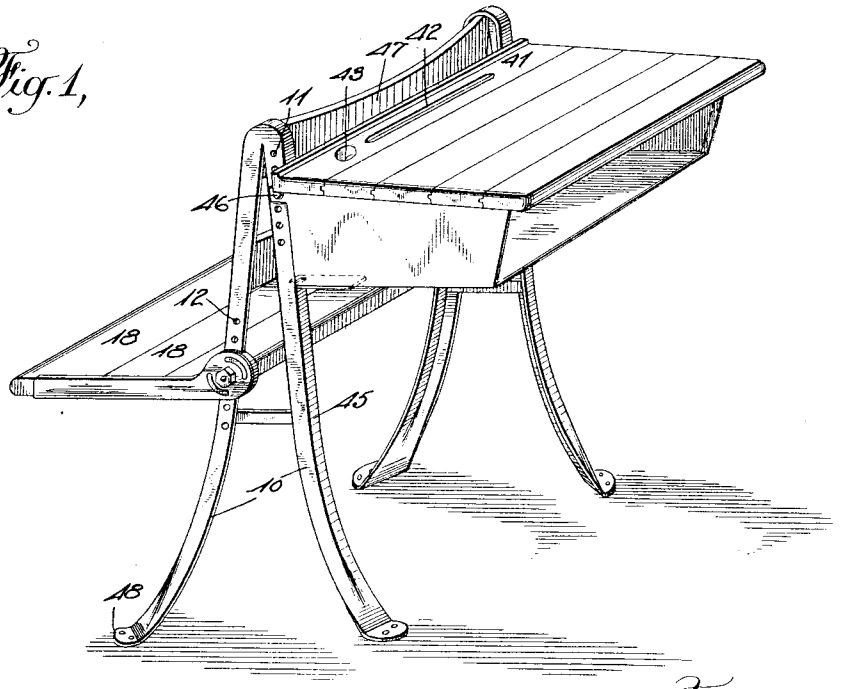


Fig. 2,

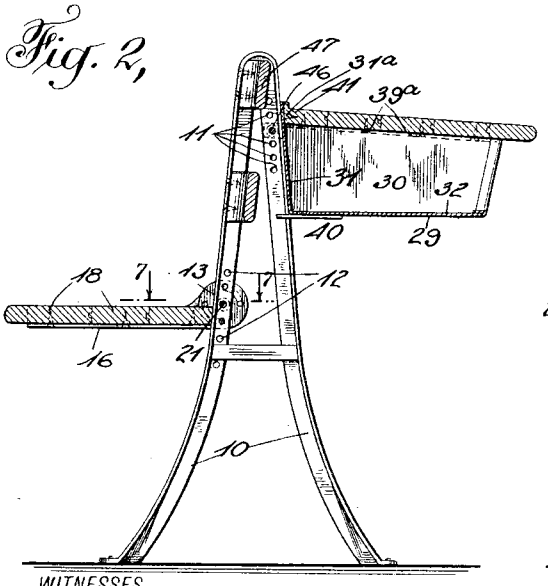
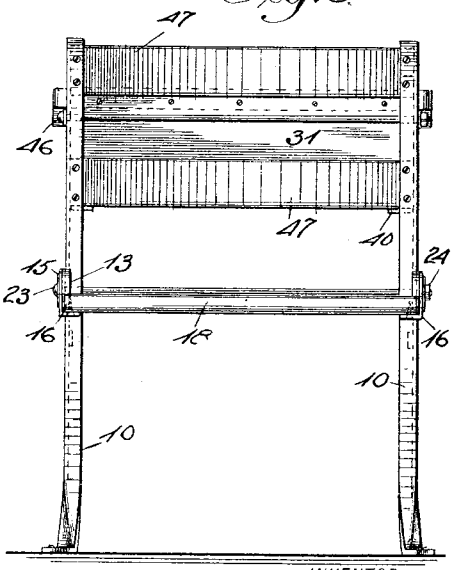


Fig. 3



WITNESSES

L. Hauerstein

E. B. Marshall

INVENTOR

Frank W. Else

BY Munn & Co

ATTORNEYS

THE COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

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Fig. 4,

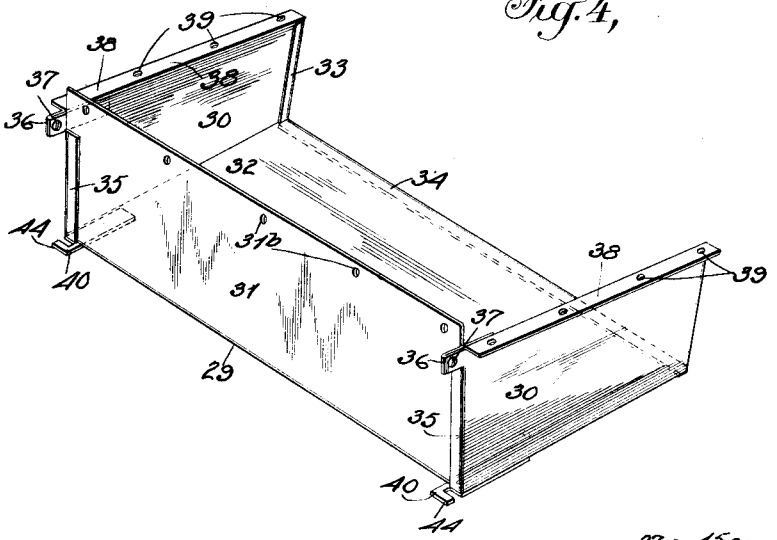


Fig. 5,

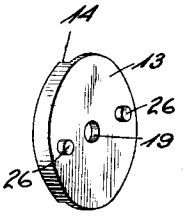


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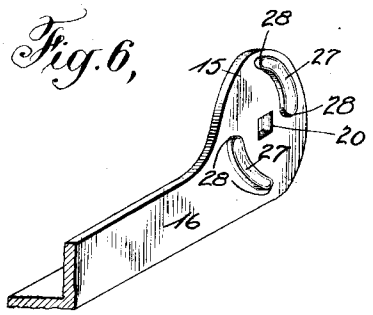
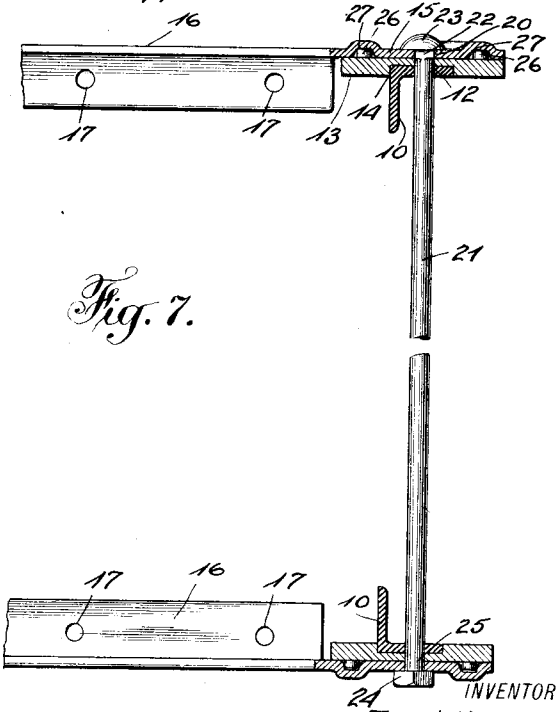


Fig. 7.



WITNESSES

L. Hauerstein

L. B. Marshall

INVENTOR

Frank W. Else

BY Munn & Co

ATTORNEYS

THE COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK W. ELSE, OF OSKALOOSA, IOWA.

SCHOOL DESK AND SEAT.

1,176,667. Specification of Letters Patent. Patented Mar. 21, 1916.

Application filed October 23, 1914. Serial No. 868,198.

To all whom it may concern:

Be it known that I, FRANK W. ELSE, a citizen of the United States, and a resident of Oskaloosa, in the county of Mahaska and State of Iowa, have invented a new and Improved School Desk and Seat, of which the following is a full, clear, and exact description.

My invention has for its object to provide a school desk and seat provided with two side frames spaced apart and with means to adjust a seat and a book pocket on the frames so that the seat is pivoted and the book pocket is secured to the frames at any desired height and also so that the seat or book pocket will extend at the front and the rear of the frames as desired.

Additional objects of the invention will appear in the following specification in which the preferred form of my invention is disclosed.

In the drawings similar reference characters refer to similar parts in all the views in which—

Figure 1 is a perspective view showing my improved school desk and seat; Fig. 2 is a transverse sectional view of Fig. 1; Fig. 3 is a front view of Fig. 1; Fig. 4 is a perspective view showing the book pocket; Fig. 5 is a perspective view showing one of the hinge members; Fig. 6 is a perspective view showing the other hinge member with an arm secured thereto; and Fig. 7 is a sectional view on the line 7—7 of Fig. 2.

By referring to the drawings it will be seen that two A frames 10 are provided, each of these A frames having a plurality of orifices 11 and a plurality of orifices 12. The legs of the A frames 10 are preferably constructed angular in cross section as best shown in Fig. 7 of the drawings. Disposed against the outer sides of the one set of legs of the A frames 10 there are hinge members 13 which have recesses 14, in which the legs are disposed. In this way the hinge members 13 are prevented from rotating relatively to the frame legs. Against the outer sides of the hinge members 13 there are hinge members 15, each of the hinge members 15 having an arm 16 with orifices 17 so that the seat members 18 may be readily secured to the said arms 16. The hinge members 13 have orifices 19 and the hinge members 15 have orifices 20, the hinge members 13 and 15 are disposed with their orifices in alinement with certain orifices in the legs of the frames and through these orifices there is disposed a rod or bolt 21, the rod or bolt 21 having an angular portion 22 adjacent its head 23. The angular portion 22 of the rod or bolt 21 is disposed in the angular orifice 20, of the hinge member 15, and as this orifice 20 is angular in shape, the rod or bolt 21 will be rotated with the arms 16 to prevent the loosening of the nut 24 which has a thread meshing with a thread at the end 25 of the rod or bolt 21. Projecting from the hinge member 13 there are two studs 26 which are disposed in channels 27 in the hinge member 15, the channels 27 having ends or shoulders 28 which engage the studs 26 to limit the rotary movement of the hinge members 15 with their arms 16 relatively to the hinge members 13 which are held against rotation relatively to the frames in the manner described. The seat may, in this manner, be pivotally secured to either side of the legs of the A frames 10.

When the seat has been pivoted to one set of legs, the book pocket 29 is secured to the other set of legs. This book pocket is preferably constructed of a single sheet of metal with its sides 30 and its back 31 turned up at angles to the bottom 32 of the book pocket. The front edges 33 of the sides of the book pocket are turned inwardly as shown in Fig. 4 of the drawings, and the front edge 34 of the bottom 32 is turned down and under the body of the bottom 32 as shown by the dotted lines in Fig. 4. The flanges 35 at the rear of the sides 30 are turned over and are welded to the back 31 of the book pocket, leaving the projecting lugs 36 disposed rearwardly at the top of the book pocket. These lugs 36 have orifices 37. The tops of the sides 30 are bent outwardly at 38 and are provided with orifices 39. The top member 41 of the desk has a pencil tray 42 and an ink well opening 43. At the bottom of the book pocket 29 and extending rearwardly, there are lugs 40 with fingers 44 which are normally disposed around the inwardly extending portions 45 of the rear legs of the A frames, the book pocket 29 being adjusted at the proper height and with the orifices 37 disposed in alinement with the orifices 11 in the legs. A bolt or rod 46 is then inserted through the orifices 37 and the said orifices 11 secure the book pocket 29 with the top member 41 to the frames and at the proper height. Curved strips 47 are secured to the legs of

the frames 10 to which the seat is pivoted. The bottom of the legs of the A frames have flat feet 48 to prevent the collection of dust around the legs. The strips forming the top member 41 are secured to the top of the sides 30 of the book pocket 29 by screws 39[a] passing up through the orifices 39 and engaging the strips. The member 41 is also secured to the back 31 of the book pocket by screws 31[a] which are disposed in the orifices 31[b] and engage the member 41.

Having thus described my invention I claim as new and desire to secure by Letters Patent:

1. In a school desk and seat, two frames spaced apart, each frame having a leg, there being a plurality of orifices in the leg of each frame, two hinge members adjustable on the frames and each having a groove in which a leg of a frame is disposed, the hinge members having each an orifice registering with an orifice in a frame, two arms with hinge members which are disposed one at each of the first hinge members, the second hinge members having orifices registering with the orifices in the first hinge members, a rod disposed in the orifices in the hinge members and the orifices in the legs which register with the orifices in the hinge members, a seat secured to the arms and means to limit the rotary movement of the second hinge members relatively to the first hinge members.

2. In a school desk and seat, two frames spaced apart, each frame having a leg, there being a plurality of orifices in the leg of each frame, two hinge members adjustable on the frames and each having a groove in which a leg of a frame is disposed, the hinge members having each an orifice registering with an orifice in a frame, two arms with hinge members which are disposed one at each of the first hinge members, the second hinge members having orifices registering with orifices in the first hinge members, a rod disposed in the orifices in the hinge members and the orifices in the legs which register with the orifices in the hinge members, a seat secured to the arms, studs on one set of hinge members, there being channels in the other set of hinge members, and shoulders in the channels to limit the rotary movement of the studs.

3. In an article of the class described, two frames spaced apart, each frame having a leg, there being a plurality of orifices in the leg of each frame, two hinge members adjustable longitudinally of the frames and having means to prevent their rotation relatively to the frames, the hinge members having each an orifice registering with an orifice in a frame, two frames with hinge members which are disposed one at each of the first hinge members, the second hinge members having orifices registering with the orifices in the first hinge members, and a rod disposed in the orifices in the hinge members and the orifices in the legs which register with the orifices in the hinge members.

4. In an article of the class described, a frame having a plurality of orifices, a hinge member adjustable relatively to the frame and having means to prevent its rotation relatively to the frame, the hinge member being provided with an orifice, a second hinge member disposed at the first hinge member, the second hinge member having an orifice registering with the orifice in the first hinge member, and a rod disposed in the orifices in the hinge members and the orifices in the frame, for the purpose specified.

5. In an article of the class described, a frame having a plurality of orifices, a hinge member adjustable on the frame and having a groove in which a portion of the frame is disposed, a hinge member having an orifice registering with an orifice in the frame, the second hinge member having an orifice registering with the orifice in the first hinge member, and a rod disposed in the orifices in the hinge members and the orifices in the frame.

In testimony whereof I have signed my name to this specification in the presence of the subscribing witnesses.

FRANK W. ELSE.

Witnesses:

O. ED. BEMAN,

JNO. J. HIMES.

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