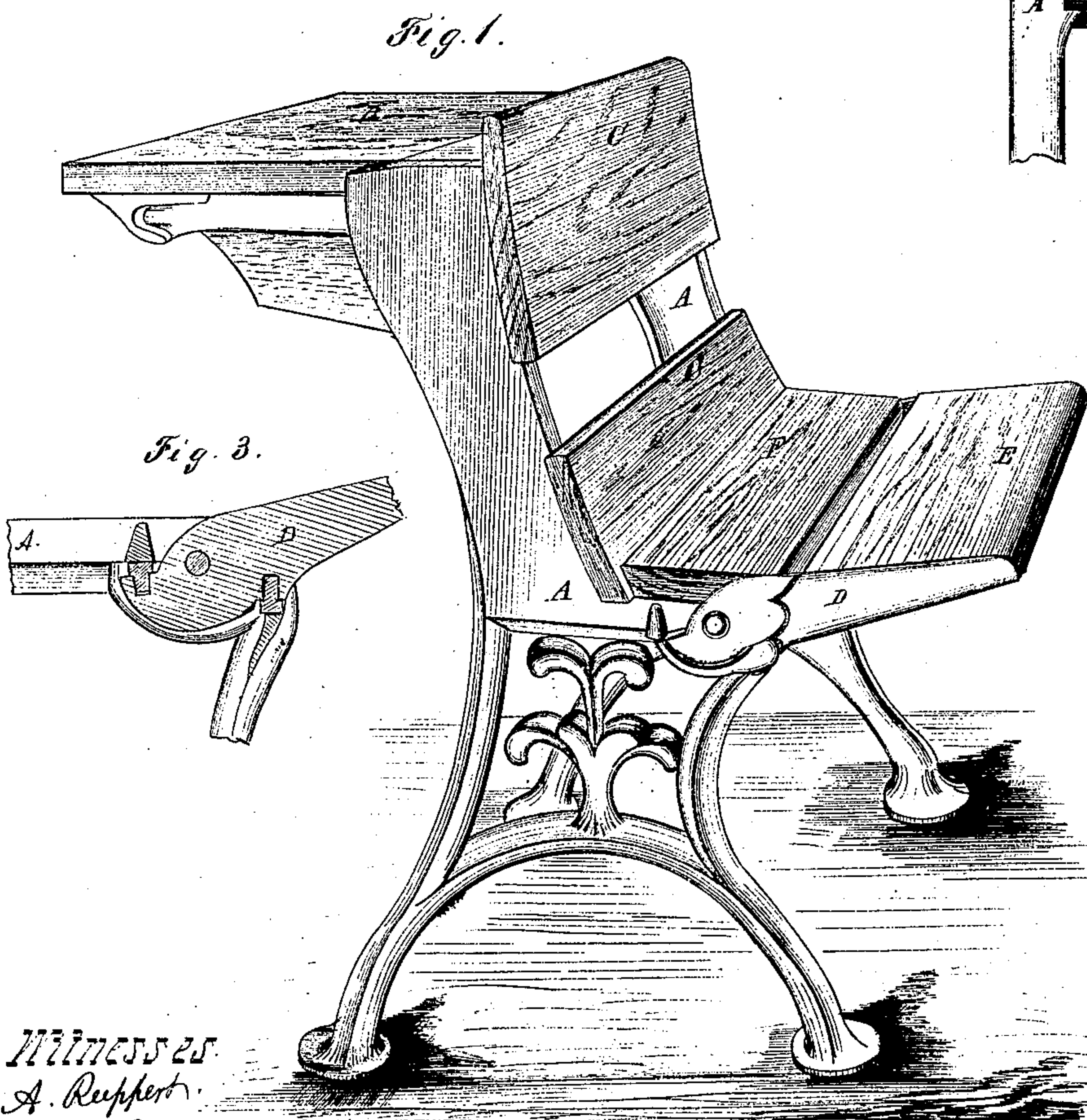
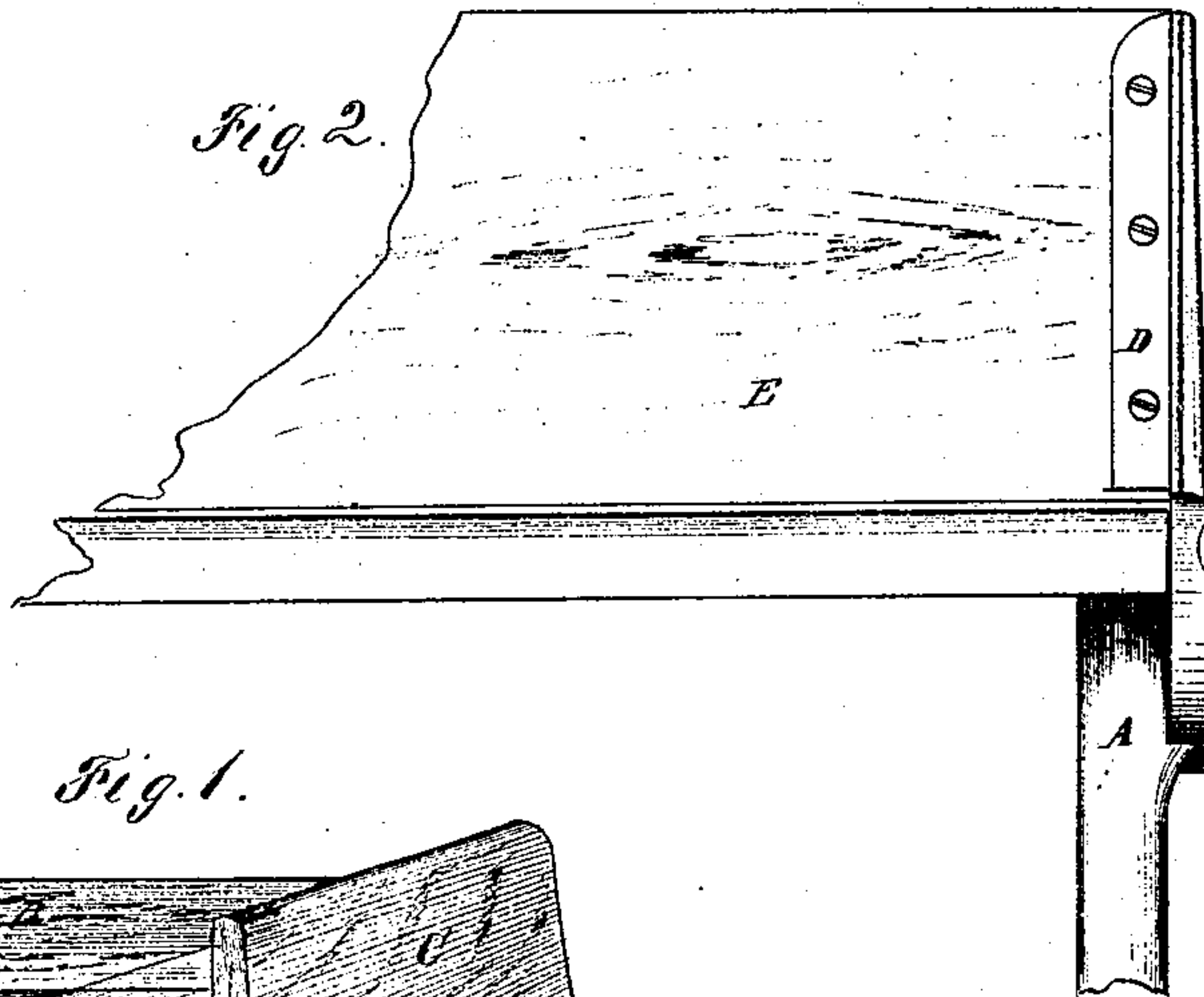


A. S. Vorse,

School Desk.

No. 104,906.

Patented June 28. 1870.



Witnesses
A. Ruppert.
C. F. Clausen.

A. S. Vorse Inventor
D. P. Holloway & Co
Attys.

United States Patent Office.

ADDISON S. VORSE, OF DES MOINES, IOWA.

Letters Patent No. 104,906, dated June 28, 1870.

IMPROVED SCHOOL-DESK SEAT.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ADDISON S. VORSE, of Des Moines, in the county of Polk and State of Iowa, have invented certain Improvements in School-Desks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making part of this specification, in which—

Figure 1 is a perspective view of my improved desk, showing the parts in position for use, and showing also how a portion or section of the seat may be folded up, so as to permit the pupils to pass between the desks when arranged for use.

Figure 2 is a front elevation of a portion of the seat, and of one of the end frames, the seat being shown as in its vertical or folded position.

Figure 3 is a sectional view of the end of the bar or arm to which the seat is attached, showing the recesses into which rubber springs are inserted, for the purpose of forming cushions for the seat to rest upon.

Corresponding letters refer to corresponding parts in the several figures.

This invention relates to school-desks; and

It consists in the combination and arrangement of its parts, as will be more fully set forth hereinafter.

A A in the drawing refer to the metal frames which form the ends of the desk, which, in their general configuration, may be of any approved pattern, they having feet to rest upon the floor, in the usual way, projections or flanges to which to attach the back, and projections upon their inner surfaces, at their upper ends, upon which the folding desk rests. These frames differ from those in general use in that portion thereof which supports the seat, which projects forward to a greater distance than is usual, for the purpose of receiving and supporting the fixed or stationary portion of such seat, the usual method being to fold up the entire seat, while in the present case only a portion thereof can be folded up, the remainder remaining fixed with reference to the frames of the desk.

B refers to the desk, or that portion thereof upon which the books are to be placed when the same are in use. This desk may be constructed to fold or slide between the end frames in any approved manner, but which, as it forms no part of this invention, need not be more particularly described here.

C C refer to the back of the seat, which, in this instance, consists of two pieces of wood, which extend from one of the end frames to the other, their ends being attached thereto by means of screws, which pass through flanges upon the inner surfaces of said frames.

D refers to an arm or portion of the frame, of which there are two, one upon each end of the seat, they

being pivoted to the end frames A, near their front edges, in such a manner as to allow that portion of the seat which is secured thereto to be folded up against the back, as shown in fig. 2 of the drawing. These arms are provided with stops or bearing-points on each side of their pivoted points, against or upon which they rest when the seat is in position for use, such stops or projections being provided with recesses or cavities, for the reception of rubber or other springs, the office of which is to prevent concussion and noise when the seat is turned down, and also to make the seat, to some extent, yielding when in that position. They are also provided with flanges upon their inner surfaces, to which to attach the wooden portion of the seat.

E refers to a piece of wood, which, together with the arms D, constitutes the folding portion of the seat. Its length is such as to fill the space between the arms D when they are attached to the frames A, and its width such as to constitute about one-half of the width of the seat. These parts are arranged in such a manner that the front or outer portion of the seat may be folded up against its back, as shown in fig. 2, while the remainder of such seat remains in the position shown in fig. 1.

F refers to the fixed portion of the seat, which consists of a piece of wood, which extends from one of the end frames A to the other, its ends being secured thereto by screws or bolts, in such a manner that it aids the pieces which constitute the back of the seat in keeping the end frames in position, it relieving the screws which attach the latter to the end frames from much of the strain which would otherwise be put upon them, which feature is regarded as of great importance in the construction of school-desks.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

The combination of the frames A A, arms D D, folding portion E of the seat, and its fixed portion F, such fixed portion being bolted firmly to the frames A A, for the purpose of giving additional strength thereto, and the springs upon which the arms D D rest, when the parts are so arranged as to permit a section or portion of the seat to be folded up against the fixed portion, substantially as and for the purpose set forth.

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

A. S. VORSE.

Witnesses:

C. P. HOLMES,
DANL. ELLYSON.