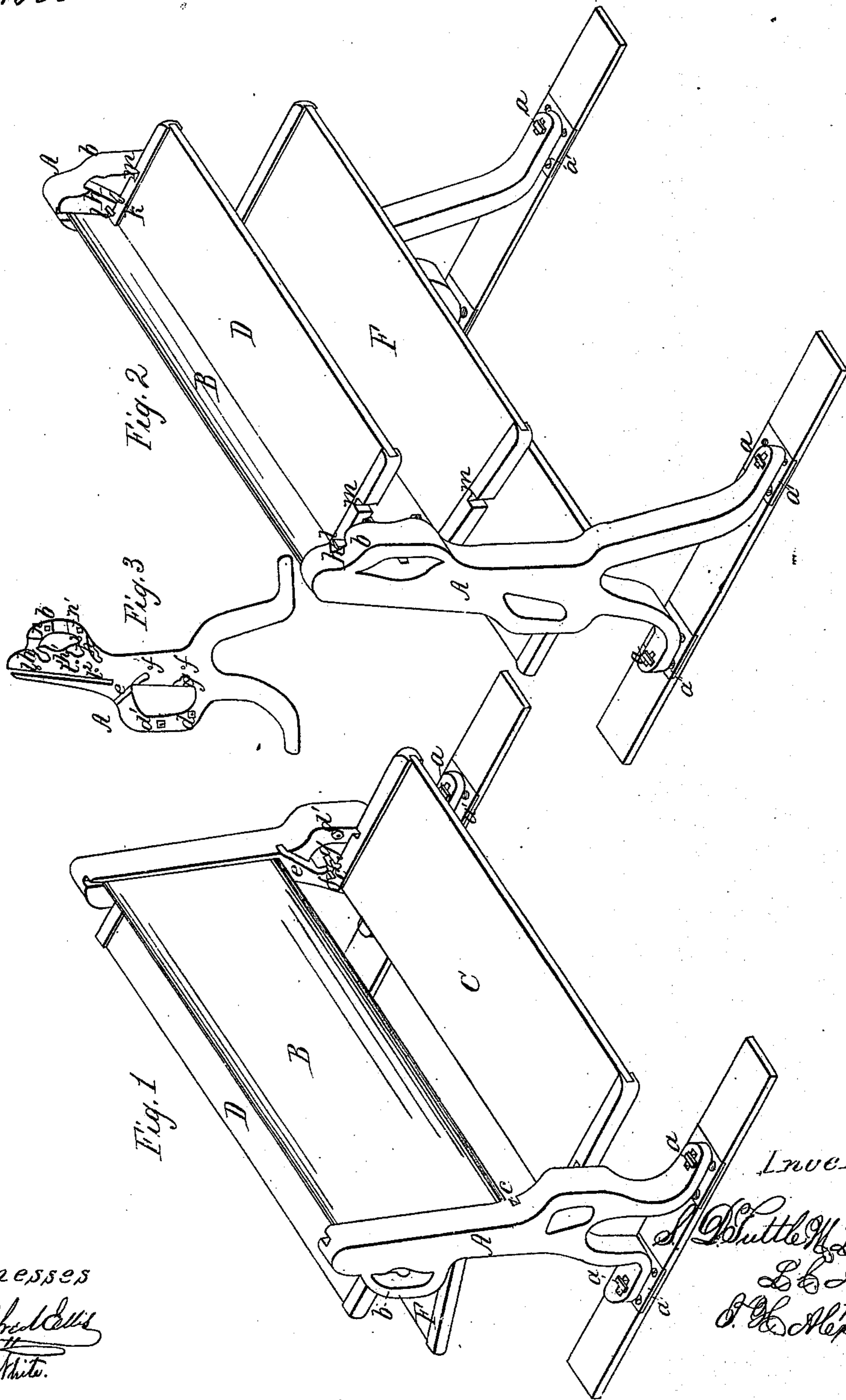


Abbott, Tuttle & Holt,

School Seat and Desk.

N^o 80,106.

Patented July 21, 1868.



Witnesses
J. Alford
J. V. White.

Inventors
Abbott, Tuttle & Holt
per
J. H. Alexander
Atty.

UNITED STATES PATENT OFFICE.

L. C. ABBOTT, S. D. TUTTLE, AND M. L. HOLT, OF EATON, OHIO.

IMPROVED SCHOOL SEAT AND DESK.

Specification forming part of Letters Patent No. 80,106, dated July 21, 1868.

To all whom it may concern:

Be it known that we, L. C. ABBOTT, S. D. TUTTLE, and M. L. HOLT, of Eaton, in the county of Preble and State of Ohio, have invented certain new and useful Improvements in Combined School Seat and Desk; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification, in which—

Figure 1 represents a front perspective of our invention. Fig. 2 represents a perspective of its opposite side; and Fig. 3 a side elevation of one of the standards, showing the shape of the grooves cut thereon.

The nature of our invention consists in constructing a portable school desk and seat so that it may be easily and readily taken apart and put together without the use of nails and screws, substantially as will be hereinafter described.

To enable others to enjoy the benefits of our invention, we will now describe its construction and operation.

In the accompanying drawings, A represents the standards, made as shown therein, and furnished at their lower ends or feet with slots, through which pass bolts *a a* provided with head or cap pieces for confining them therein. These bolts screw into metal plates *a' a'*, by means of which the desks may be secured to the floor, said plates being furnished with holes, through which screws pass.

B designates the back of the seat, which slides or fits in grooves cut on the upper insides of the standards A.

C designates the seat, which is provided on each side, near its rear end, with a projection, *c*, which fits into an inclined groove, *g*, terminating in a round opening, and cut on the inner sides of the standards A.

d d are projections secured to the sides of the standards, which are designed as supports for the front edges of the seat C. These supports are furnished with rubber, for the purpose of preventing noise while the desk and seat are being adjusted, the projections or supports of the desk being likewise supplied with rubber.

f f designate projections fastened to the inner sides of the standards, so that they will

prevent the seat from tilting down in front, and fit in a recess in each end of the seat.

e e designate grooves cut on the inner sides of the standards A, directly above the grooves *g*. These grooves are inclined, as shown in Figs. 1 and 2, for the purpose of keeping the seat securely in position, and also of allowing the seat to be situated higher, to suit larger scholars.

f' and *d'* represent projections situated on the inner sides of the standards immediately above projections *f f* and *d d*, and also act as supports for the seat when adjusted in the grooves *e e*. The supports on which the front part of the seat rests are provided with rubber, for the purpose already stated. The upper opposite side of the standards is formed with arms or supports *b b*, which are provided at their upper ends with grooves *h h*, made as seen in Fig. 3, into which fit projections *k k*, secured to the sides of the board or desk D.

l designates a projection fastened to each side of the standards, and resting on the upper rear sides of the desk in recesses, so as to keep that portion of the desk in position. On the outer ends of arms *b* are placed supports *n*, supplied with rubber, so that they will allow the desk to have the required inclination, and also keep its outer end in place.

h' h' designate grooves cut in the sides of the standards in a line with the grooves *h*, and made as seen in Fig. 3. By means of these grooves the desk or board D may be adjusted to suit different-sized children. The grooves *h'* are also supplied with projections *l'* and supports *n'*, situated directly beneath the projections *l* and *n*, and at the same inclination, for the purpose already described. The grooves *h'* are designed to receive the bottom or shelf F of the desk, they being supplied with projections or stays *l'*, which rest in openings or recesses on the inner ends of the bottom F. The arms or supports *b b* are recessed on their inner surfaces, in order to admit of the board or desk D being placed in its proper position.

m m are apertures cut on the outer edges of the desk D and bottom or shelf F, so as to allow them to pass any of the projections with which they may come in contact while being folded up or put together. Thus it will be observed, from the foregoing arrangement, that we dispense entirely with the use of nails or

screws in constructing our portable desk and seat, which greatly diminishes the expense and trouble in manufacturing desks and seats.

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

The standards A A, provided with grooves, substantially as described, arranged in combination with seat C, desk F, and shelf D, with their projections, operating as and for the purpose set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

L. C. ABBOTT.
S. D. TUTTLE.
M. L. HOLT.

Witnesses:

JNO. R. STEPHEN,
GEORGE D. STEPHEN.