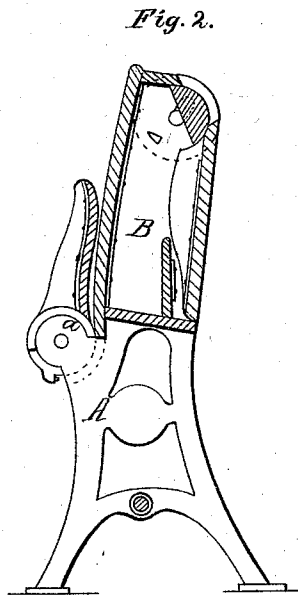
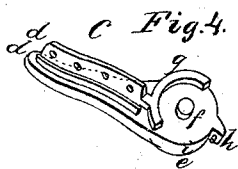
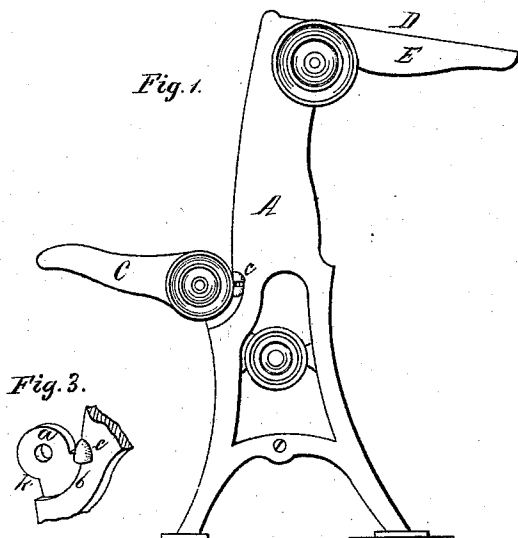


S. R. RUCKEL.
School-Seats.

No. 151,245.

Patented May 26, 1874.



WITNESSES.
W. H. DuFanel
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UNITED STATES PATENT OFFICE.

SAMUEL R. RUCKEL, OF JACKSON COUNTY, ASSIGNOR OF ONE-HALF HIS
RIGHT TO ISAAC W. McDONALD, OF KANSAS CITY, MISSOURI.

IMPROVEMENT IN SCHOOL-SEATS.

Specification forming part of Letters Patent No. 151,245, dated May 26, 1874; application filed
December 15, 1873.

To all whom it may concern:

Be it known that I, SAMUEL ROBINSON RUCKEL, of Jackson county, in the State of Missouri, have invented certain Improvements in School-Seats, of which the following is a specification:

This invention relates to that class of school-desks in which the seat for one desk is attached to the standards of another, as herein-after specified.

In the drawings, Figure 1 is a side elevation of a desk constructed with my improvements. Fig. 2 is a central vertical cross-section. Fig. 3 is a perspective view of an ear projecting from the standard, and constituting the female half of the seat-hinge. Fig. 4 is a perspective view, from the inner side, of one of the seat-supports, being the male half of the seat-hinge.

A A are standards, of any approved suitable pattern, secured together by ties or rungs, and by the front, back, and bottom of the book-receptacle B. About midway on the front of the standards, ears *a* project, which are circular in form, and have an eye through their centers. Each ear is cast on the inner side of the standard, so as to leave a curved rim, *b*, thereon, and a projection or stop, *c*, is formed at the upper end of said rim, as clearly shown in Fig. 3. C C are cast-metal arms, having flanges *d d* between, and onto one of which the boards forming the seat are secured. These arms are properly curved, so that the seat may be shaped accordingly, and have circular ends *e* to conform to the shape of the ears *a*, on which they are fitted by the pins *f* entering the holes in said ears. These ends *e* are made with a rim or flange, *g*, which rides on the outer edge of the ears, and the edge *i* of ends *e* works in the rim *b*. A lug, *h*, is formed on the edge *i* on a line with the pin *f*, and has a piece of rubber or other material on it, the object of the lug being to abut against the stop *c* to hold the seat in position for use, as in Fig. 1, the rubber, &c., serving to deaden or prevent noise in lowering the seat. The end of the flange *g* abuts against a shoulder, *k*, on the ear, thus relieving the lug *h* and stop *c* of undue pressure, and, consequently, strengthening the

seat. When not in use, the seat is simply turned up, as in Fig. 2. The desk-leaf D is composed of cast-metal arms E, having flanges between, and onto which the board is secured. These arms are hinged to circular plates F on the ends of the standards. In these plates a slot, *l*, is made, extending from their centers upwardly at about an angle of forty-five degrees, and at the juncture of the plates with the standards; and on said standards two circular recessed ways, *m n*, are made, on the inner one of which a stop, *o*, is formed. These devices form the female portion of the hinge, whereby the desk-leaf is secured to the standards. The male portion is on the ends G of the leaf-arms E. A pintle, *p*, in the center of said end fits in the slot *l*. A flange, *r*, rides on the outer edge of the plates F, and a stop, *s*, abuts against the stop *o*, which, in connection with the lower end of flange *r*, resting against the edge of the standard, holds the desk-leaf in position for use. The lug *t* rides on way *n*, and serves to guide the movements of the leaf, while the edge *v* of end G rides in the way *m* to steady the same. A curved bar, H, is placed between the plates on which the leaf turns. A washer, *w*, is interposed between the plate and end to lessen friction. When the desk-leaf is down, as in Fig. 2, and it is desired to use it, it is raised up until the stop *s* comes in contact with stop *o*, when the pintle falls into a notch in the end of the slot *l*, and the end of flange *r* abuts against the standard edge, so that when one's hold thereon is released the leaf will be supported for use, as in Fig. 1. To fold the leaf down again, it should be pulled up or raised, so as to free the pintle from the notch in the slot, when the object can be readily accomplished.

What I claim as my invention is—

In a school-desk having a hinged seat, the arms C, provided with a flange, *g*, pin *f*, and stop *h*, in combination with the ears *a*, recessed at *b*, and having the stops *c* and *k*, substantially as shown and described.

S. R. RUCKEL.

Witnesses:

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