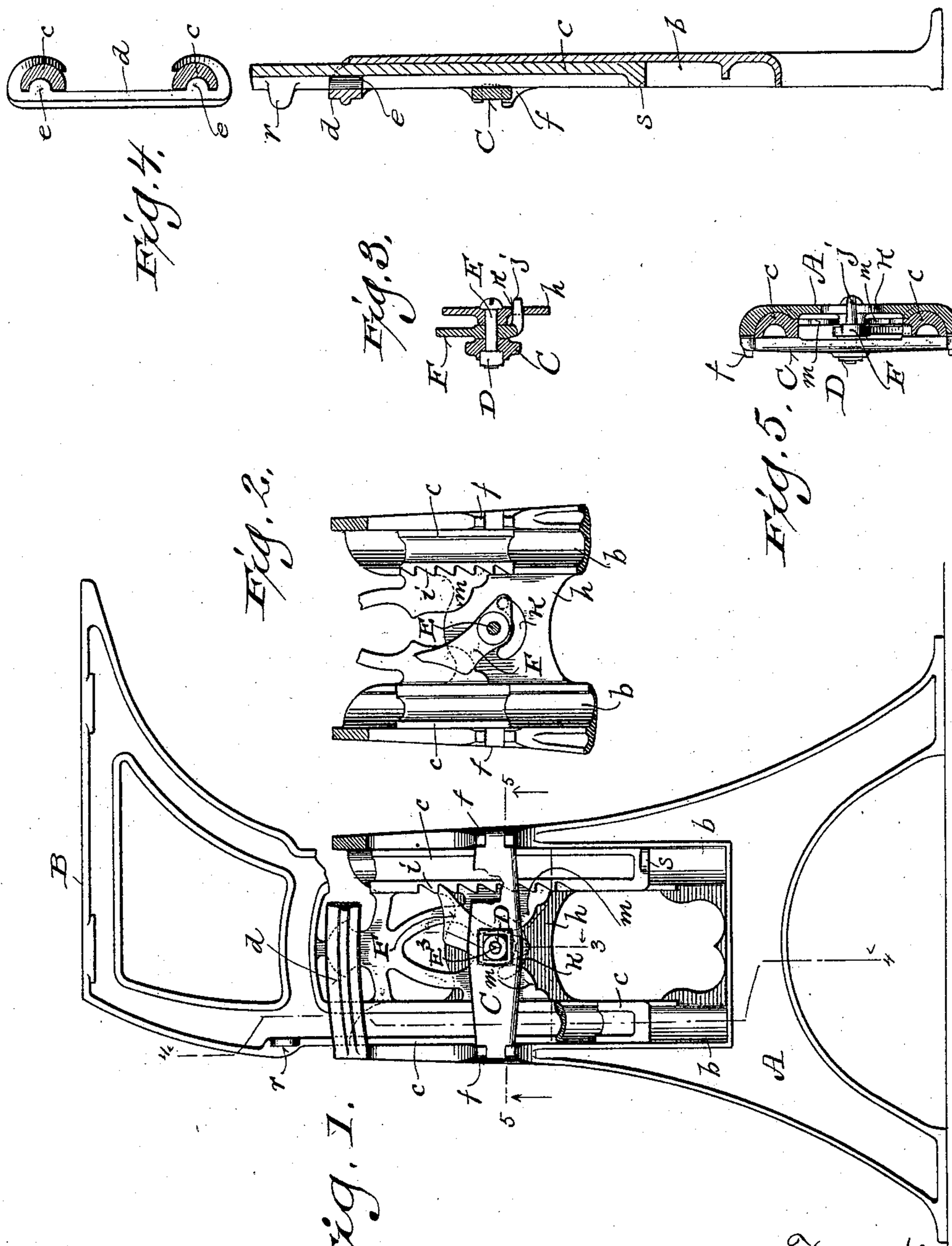
(No Model.)

W. C. HOOD.

SCHOOL DESK STANDARD.

No. 594,084. Patented Nov. 23, 1897.



Witnesses.
Geo. W. Young.
N. E. Oliphant

Inventor:
Wm. C. Hood.
By H. G. Underwood
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM C. HOOD, OF RACINE, WISCONSIN, ASSIGNOR TO THE RACINE HARDWARE COMPANY, OF SAME PLACE.

SCHOOL-DESK STANDARD.

SPECIFICATION forming part of Letters Patent No. 594,084, dated November 23, 1897.

Application filed February 18, 1897. Serial No. 623,924. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. HOOD, a citizen of the United States, and a resident of Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in School-Desk Standards; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a simple economical school-desk standard having a vertically-adjustable section and certain features of advantage resulting from the peculiarities of construction and combination of parts hereinafter set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents an inside elevation of a school-desk standard embodying my improvements, certain of the parts being broken away and in section; Fig. 2, a detail elevation illustrating a reversal of the detent shown in the preceding figure; and Figs. 3, 4, and 5, sectional views respectively indicated by lines 3 3, 4 4, and 5 5 in the first figure.

Referring by letter to the drawings, A represents the skeleton floor-section, and B the skeleton desk-section, of my improved school-desk standard, the latter section being vertically adjustable on the former section for the purpose of varying the elevation of the desk to which it may be fastened.

As is usual in the art to which my invention relates, the standard-sections are of cast-iron, the floor-section A being provided upon its inner side with vertical concave grooves *b*, that act as guides for vertical branches *c* of the desk-section B, these branches being outwardly convex in order to have sliding fit in said grooves.

At its upper end the floor-section of the standard is provided with a cross-brace *d*, herein shown as having outwardly-extending guide-lugs *e*, engaging concave inner faces of the branches *c* pertaining to the desk-section of said standard.

On its inner side the floor-section of the standard is provided with angularly-notched lateral lugs *f*, constituting seats for correspondingly-reduced ends of a cross-bar C, that opposes the branches *c* belonging to the desk-section of said standard, this cross-bar being provided with an angular central recess that constitutes a seat for a correspondingly-shaped nut D run on the end of a preferably screw-headed bolt E, having bearing in a standard-web *h* and cross-bar C, the latter being detachable and held in place by means of said bolt and nut.

The bolt E constitutes a pivot for a gravity-detent F, engaging with a rack *i* on an edge of one of the branches *c* of adjustable desk-section B of the standard, the detent being intermediate of web *h* and cross-bar C, above specified. A hand-lug *j* at the lower end of detent F extends through a segmental slot *k* in web *h* of the floor-section A of the standard, and thus provision is had for convenient manipulation of said detent, the latter in its engagement with the rack *i* serving as a support for the desk-section B of the standard in adjusted position. The detent in the position shown in Fig. 1 will automatically engage with the rack when the desk-section B of the standard is elevated, and if it be swung back out of this position to that shown in Fig. 2 the cam portion *m* of said section will operate upon lug *j* to throw said detent into working position when the standard is assembled.

The desk-section B of the standard is provided with an inwardly-extended stop-lug *r*, that comes into contact with the upper edge of cross-brace *d* of the floor-section A to limit the descent of said desk-section, upward movement of the latter being limited by a foot-lug *s* on one of its branches coming into contact with the under edge of the cross-bar C when the latter is positioned. By tightening the bolt E the cross-bar C is caused to exert clamping pressure against the branches of the desk-section B of the standards, and thus this section is securely locked in its adjusted position. Owing to the fact that a tool is necessary to loosen bolt E the desk-section of the standard is not ordinarily susceptible of indiscriminate adjustment, and the cross-bar C being drawn tight in its seat there cannot be any loose play or rattle of the parts that go to make up said standard.

Having thus described my invention, what

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

1. A school-desk standard comprising a floor-section, a desk-section in adjustable clamp connection with the former section and provided with a rack, a pivotal detent engageable with the rack, a hand-lug extending from the detent through a segmental slot in said floor-section, and a cam on the desk-section operative against said lug to throw said detent from idle to working position.

2. A school-desk standard comprising a floor-section provided with vertical guide-grooves, an upper cross-brace and notched lateral lugs; a desk-section having branches engaging said guide-grooves outside of said cross-brace and one of these branches provided with a rack, a cross-bar having reduced angular ends seated in the floor-section lugs to thereby oppose said branches of the desk-section, a clamp-bolt and nut connecting the cross-bar with said floor-section, and a rack-engaging detent having said bolt for its pivot.

3. A school-desk standard comprising a floor-section provided with vertical guide-grooves and an upper cross-brace, a desk-section having branches engaging said guide-grooves outside of said cross-brace and one of these branches provided with a rack, a detachable cross-bar supported on the floor-section in opposition to said branches, a clamp-bolt and nut connecting the cross-bar with said floor-section, a rack-engaging detent having said bolt for its pivot, and stop-lugs on said desk-section arranged with respect to the aforesaid cross-brace and cross-bar to limit vertical movement of the latter standard-section in either direction.

In testimony that I claim the foregoing I have hereunto set my hand, at Racine, in the county of Racine and State of Wisconsin, in the presence of two witnesses.

WILLIAM C. HOOD.

Witnesses:

FRANK E. NAYLOR,

HARRY R. TICKNOR.