

W. B. COGGER.

Hinges for Seat-Arms of School-Desks.

No. 164,268.

Patented June 8, 1875.

Fig. 1.

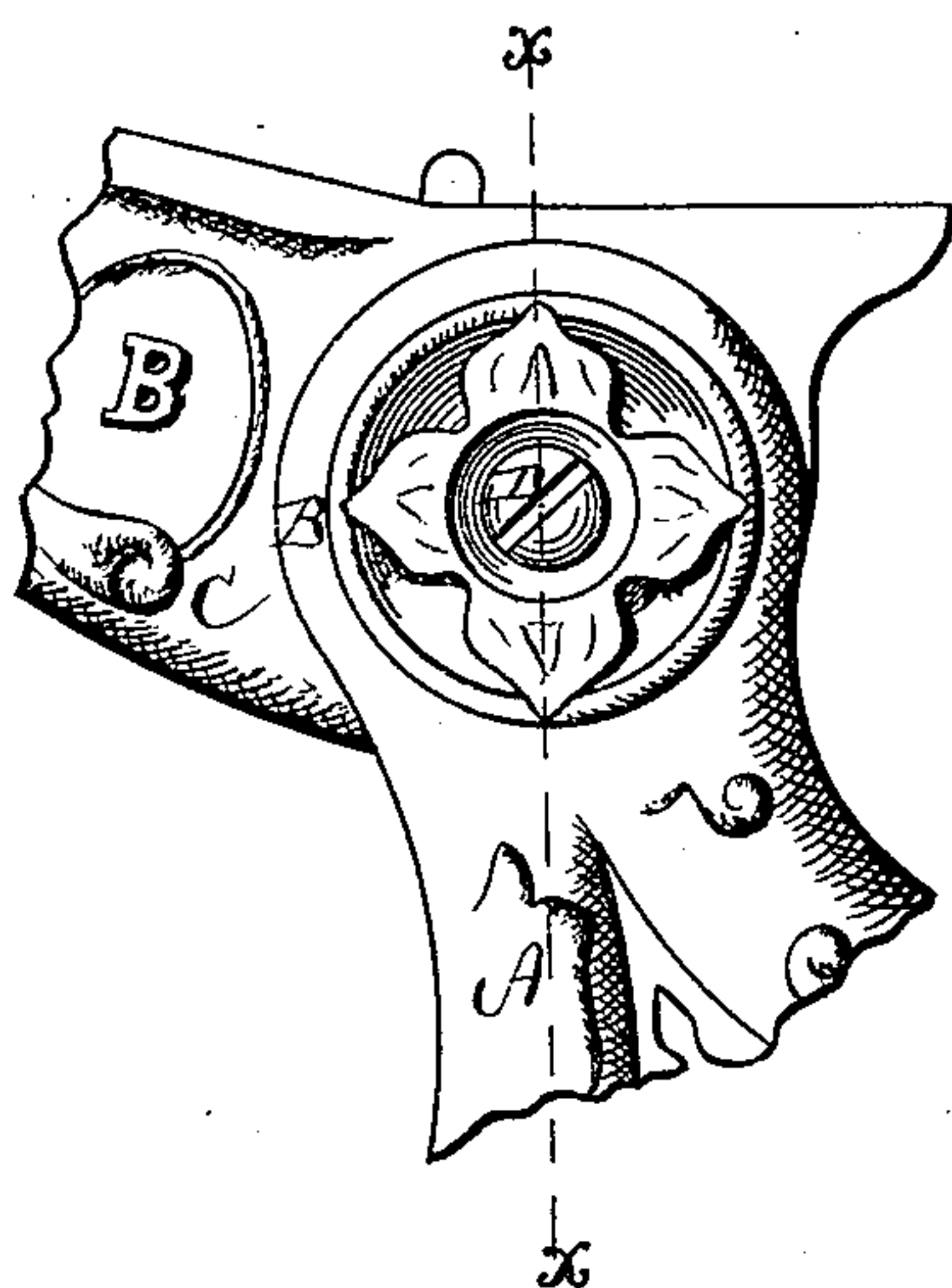


Fig. 2.

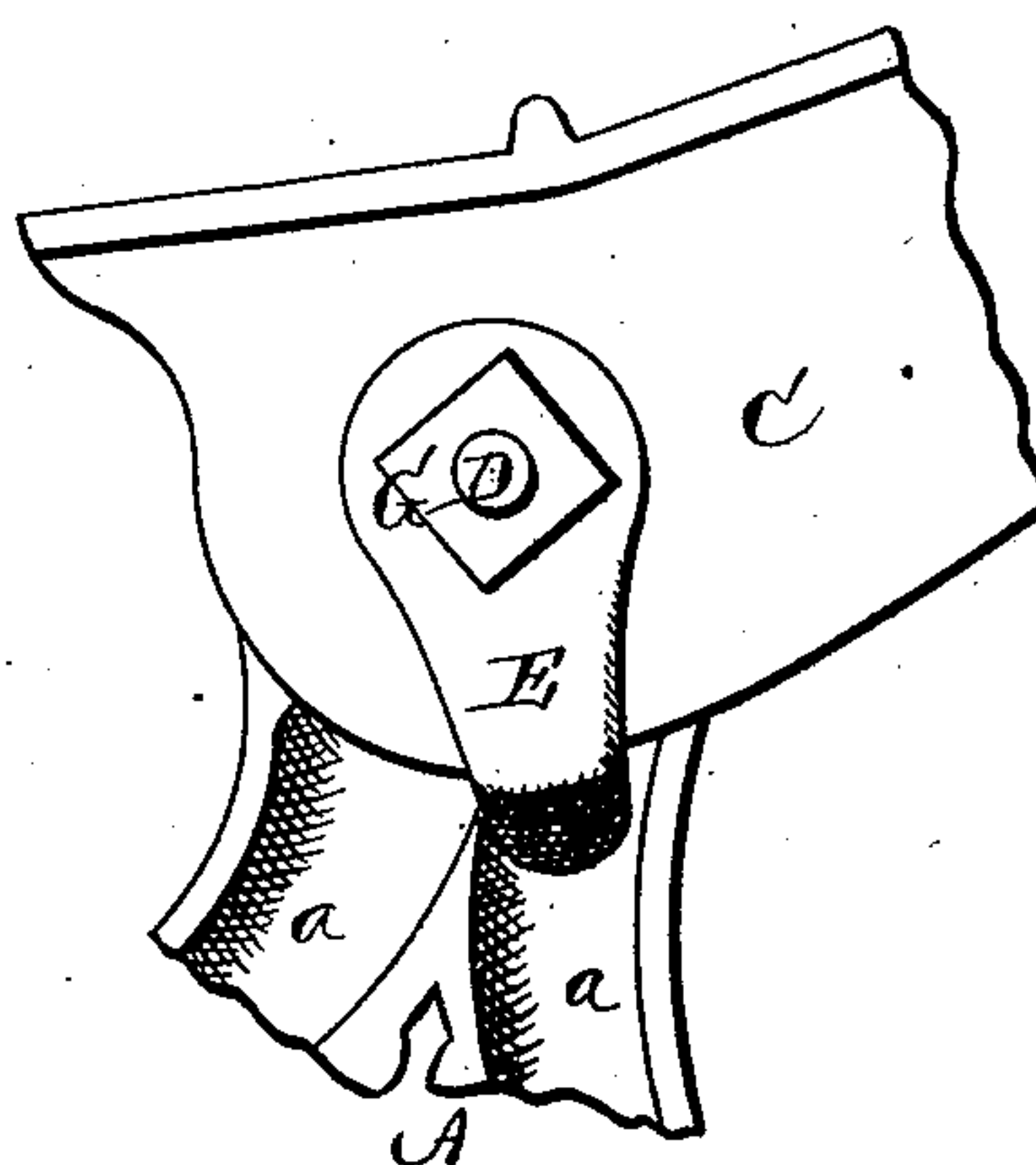


Fig. 3.

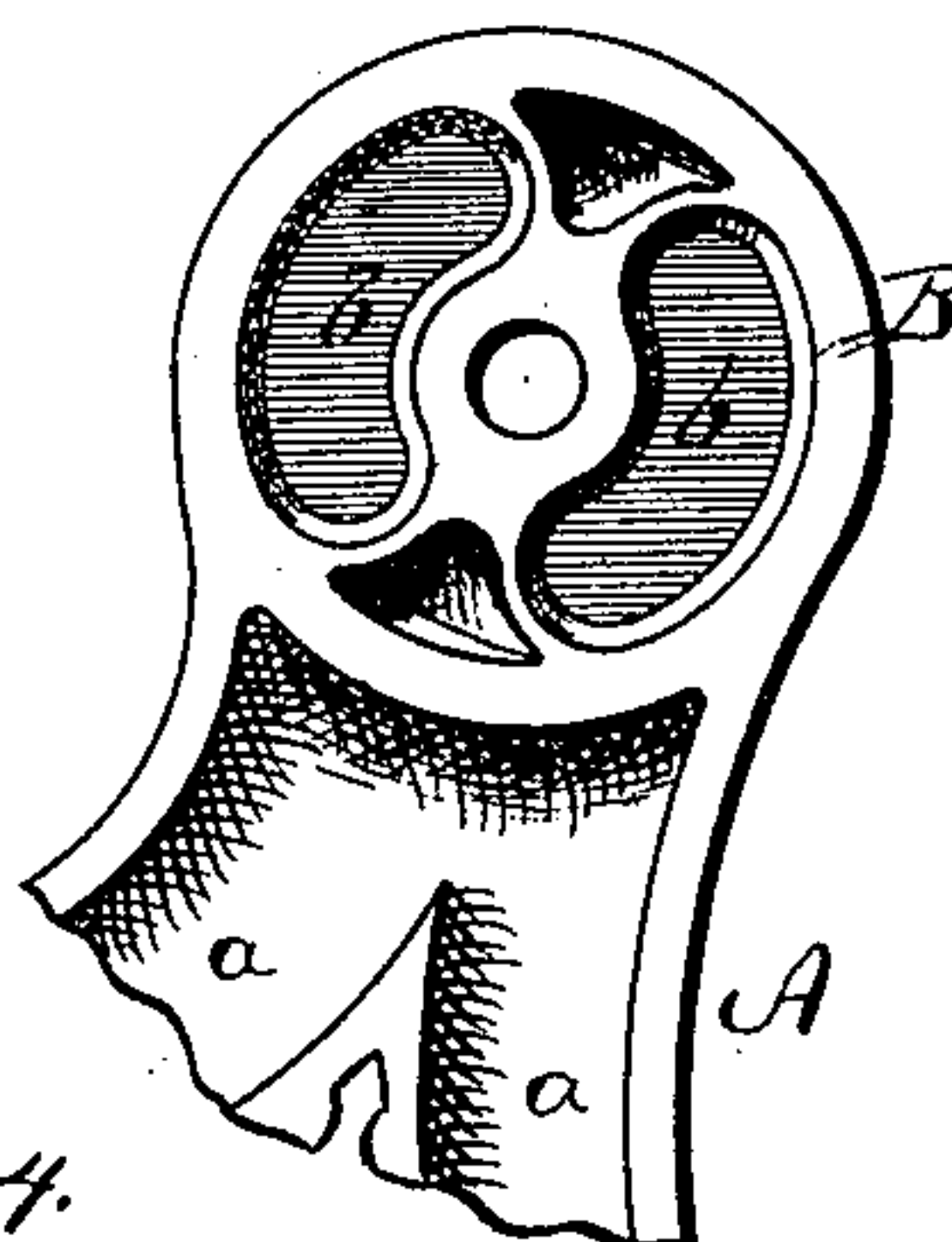
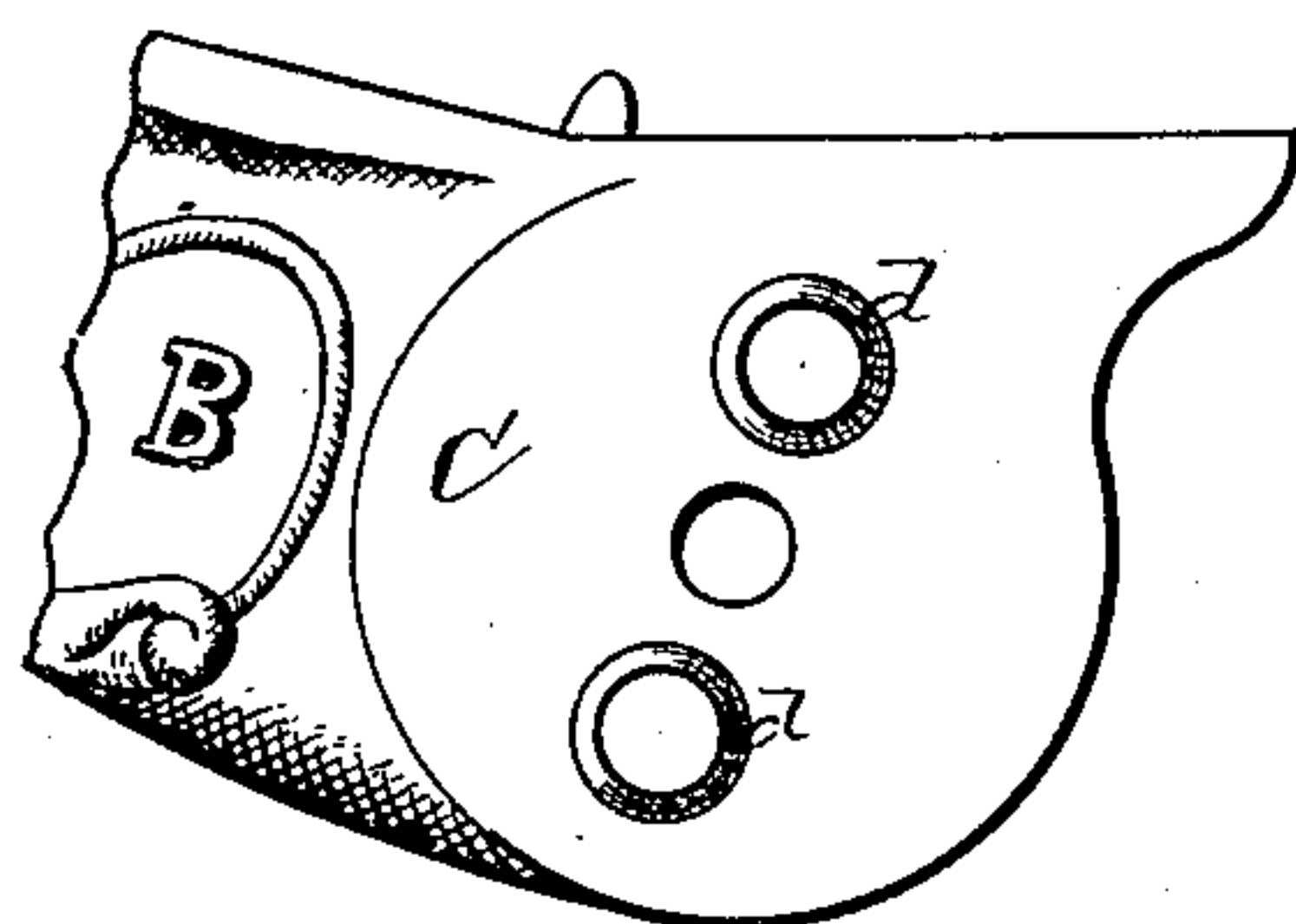
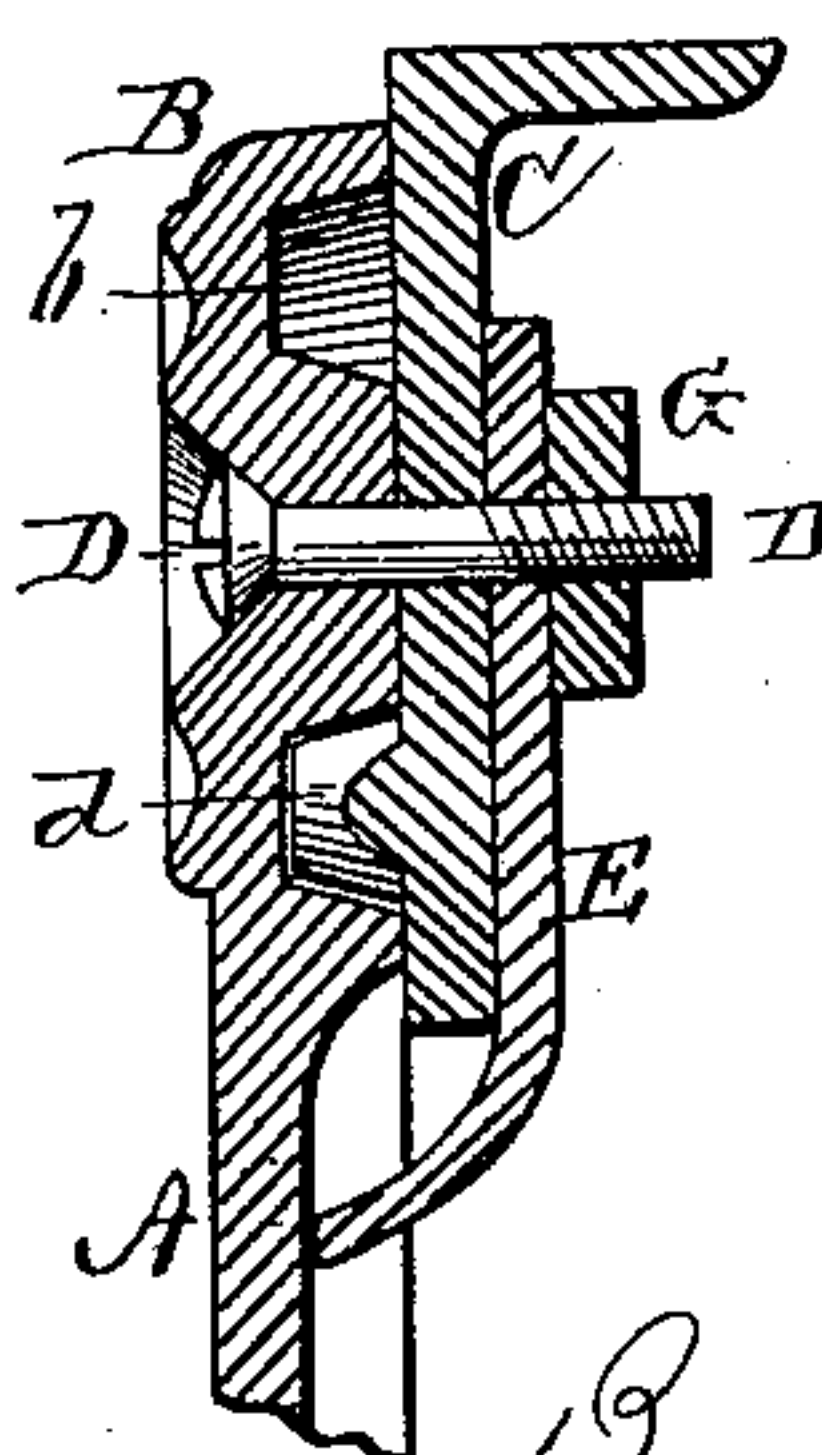


Fig. 4.



WITNESSES

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# UNITED STATES PATENT OFFICE.

WILLIAM B. COGGER, OF MORRIS, ASSIGNOR TO THE SHERWOOD SCHOOL-FURNITURE COMPANY, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN HINGES FOR SEAT-ARMS OF SCHOOL-DESKS.

Specification forming part of Letters Patent No. 164,268, dated June 8, 1875; application filed March 17, 1875.

*To all whom it may concern:*

Be it known that I, WILLIAM B. COGGER, of Morris, in the county of Grundy and in the State of Illinois, have invented certain new and useful Improvements in School-Desk Hinges; and 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, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a joint or hinge for school-desks, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is an outside view of the joint or hinge. Fig. 2 is an inside view of the same. Fig. 3 shows the two parts of the joint detached; and Fig. 4 is a section through the line *x x*, Fig. 1.

A represents a part of the side frame of a school-desk, cast, as is usual, with a circular projection, B, to form a part of the joint or hinge. Below this circular projection the frame A has grooves or recesses *a* on its inner side, as shown in Figs. 2, 3, and 4. The inner side of the projection B is provided with two recesses, *b b*, as shown in Fig. 3. C represents the inner end of the seat-arm, made rounding, and provided with two conical pins or lugs, *d d*, which are to enter the recesses *b b* in the projection B. Through the center of the projection B is made a hole countersunk on the outer side to receive a bolt, D, which passes

through the end of the seat-arm C. The inner end of the bolt passes through an arm or bar, E, placed against the inner side of the seat-arm, and the nut G is then tightly screwed on the end of the bolt. The lower end of the arm or bar E is bent to fit in one of the recesses *a* of the frame A, so that the arm will be held stationary, and thereby keep the nut from turning by the raising and lowering of the seat. The recesses *b* are so formed that when the seat-arm is thrown down for use there is very little if any strain on the bolt, but the entire strain is borne by the pins or lugs *d d* against the metal at the ends of the recesses *b b*.

I am aware that a washer having a notch in its lower end, which engages over a stud cast upon the standard, is not new in school-desks. My invention differs from such, however, in that, by the construction and arrangement of the bar E, I obviate the necessity of a stud upon the standard and the use of a notched washer.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with the frame A, having grooves *a*, and the seat-arm C, the bar E, extended and curved at its lower end to lie within one of the grooves *a*, and held by the bolt and nut, as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of February, 1875.

W. B. COGGER.

Witnesses:

H. C. JUNE,  
W. A. PARKER.