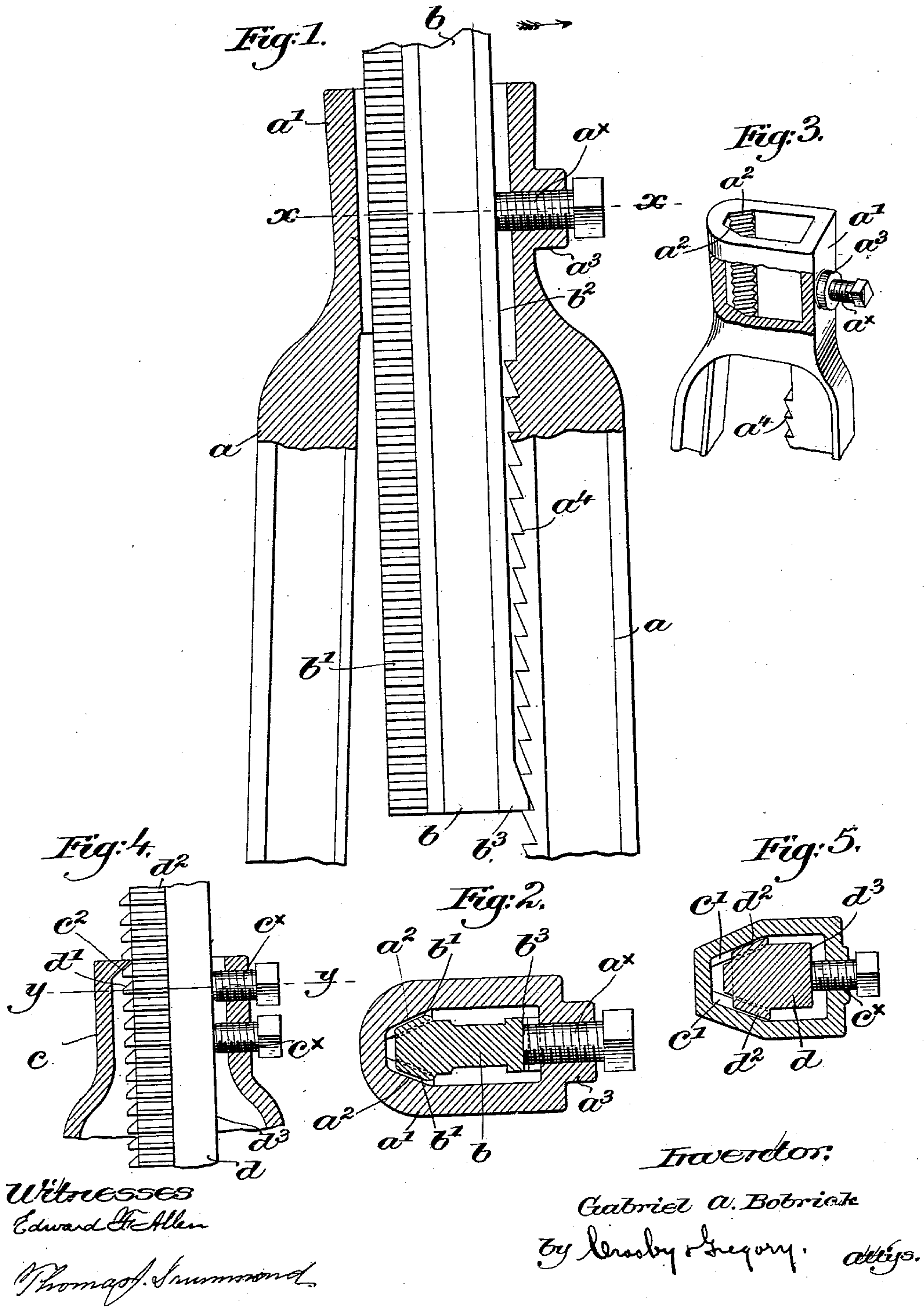


(No Model.)

G. A. BOBRICK.
ADJUSTABLE SUPPORT FOR FURNITURE.

No. 563,010.

Patented June 30, 1896.



UNITED STATES PATENT OFFICE.

GABRIEL A. BOBRICK, OF BOSTON, MASSACHUSETTS.

ADJUSTABLE SUPPORT FOR FURNITURE.

SPECIFICATION forming part of Letters Patent No. 563,010, dated June 30, 1896.

Application filed January 16, 1895. Serial No. 535,090. (No model.)

To all whom it may concern:

Be it known that I, GABRIEL A. BOBRICK, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Adjustable Supports for Furniture, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention has for its object the production of an adjustable support particularly adapted for use in connection with school desks and seats, whereby vertical adjustment of the supported object may be accomplished easily and rapidly and with safety to the operator, the support being held firmly in adjusted position by a simple and strong construction.

20 In accordance therewith my invention consists in a fixed member or standard and a co-operating vertically-adjustable member embodying various details of construction hereinafter described, and particularly pointed out in the claim.

25 Figure 1, in side elevation and partially broken out, represents a sufficient portion of the fixed and movable members of an adjustable support embodying my invention. Fig. 2 is a transverse section thereof on the line xx . Fig. 3 is a perspective view, on a smaller scale and partly broken out, of the head and upper end of the fixed member or standard. Fig. 4, in section and elevation, is a modification of my invention; and Fig. 5 is a transverse sectional view on the line yy , Fig. 4.

35 Referring to the drawings, Figs. 1 to 3, the fixed member of the support is shown as a bifurcated standard a , preferably of cast-iron, having an open top or head a' , secured at its base (not shown) to the floor in well-known manner. The interior of the head a' is made at one end to present two separated converging faces a^2 to form bearings, and transversely notched or serrated, as best shown in Fig. 3, and a boss a^3 on the opposite end of the head is interiorly threaded to receive a suitable clamping-screw a^x . The bifurcated portion of the standard is provided on one of its inner sides with a series of notches a^4 below the clamping-screw a^x , each notch having a horizontal and an inclined face, as clearly shown in Fig. 1, for a purpose to be described.

A bar b , considerably smaller in cross-section than the opening in the head a' , forms the movable member of the support, and it is attached at its upper end in usual manner to a desk or chair. (Not shown.) Converging faces b' , having transverse serrations or notches, are formed at one end of and extending substantially the length of said movable member, said faces being adapted to rest against the similarly-converged bearings a^2 , the notches or serrations on the bearings engaging those on the faces b' and positively preventing longitudinal movement of the movable bar b during such engagement.

The clamping-screw a^x is so located as to bear upon the opposite plane side b^2 of the bar b about midway between the extremities of the long bearings a^2 to firmly maintain such engagement, and by reason of the notched bearings and coöperating faces it is only necessary to set the screw tight enough to prevent play between the parts.

A toe b^3 is formed on the side b^2 of the movable member to enter one or the other of the notches a^4 on the standard and rest on the horizontal face thereof.

When adjusted, the parts of the support are in the position shown in Figs. 1 and 2, and when it is desired to alter the height of the chair or desk the screw a^x is loosened sufficiently to permit the top of the bar b to be moved by the operator in the direction of the arrow, Fig. 1, to thereby withdraw the toe b^3 from its notch, after which the bar can be raised or lowered to the desired height, the weight of the desk or chair tending to turn the bar b on the screw a^x as a fulcrum as soon as released by the operator to thereby bring the toe b^3 into engagement with another notch a^4 , said toe and coöperating notches forming a detent for the movable member. This prevents accidental dropping of the bar b and its attached piece of furniture, and overcomes any liability to injure the hands of the operator by such a fall.

When the screw a^x is tightened, the converging faces b' of the bar are held against the long bearings a^2 of the head, and the furniture is maintained in adjusted position.

In the modification shown in Figs. 4 and 5 the head c of the standard is provided with converging transversely-notched bearings c' ,

and a shoulder c^2 extends into the open head between them to engage one of a series of notches d' on the side of the movable member d between two converging and transversely notched or serrated faces d^2 .

Screws c^x , extended through the opposite side of the head, bear upon the side d^3 of the bar d lower than the shoulder c^2 , and maintain the converging faces and bearings in engagement. When the screws are loosened for purposes of adjustment, the shoulder c^2 prevents accidental falling of the member d .

From the foregoing description, taken in connection with the drawings, it will be seen that in adjusting the support the movable member must be positively moved by the operator before it can be raised or lowered, the detent preventing the movable member from falling accidentally.

I claim—

In an adjustable support for furniture, a fixed standard having an open head, long converging vertical bearings within and at one

end of said head and transversely serrated, and a clamping-screw in the head, opposite said bearings, combined with a member longitudinally movable in said head, having lateral play therein at times, and having transversely-serrated converging faces on one side thereof and extending substantially its length, to engage and be held against said bearings when lateral play of said member is prevented by the clamping-screw, and an independent detent, consisting of a series of notches on one, and a cooperating projection on the other member, to prevent accidental falling of the movable member when unclamped, rocking of the movable member releasing the detent, substantially as described.

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

GABRIEL A. BOBRICK.

Witnesses:

AUGUSTA E. DEAN,
JOHN C. EDWARDS.