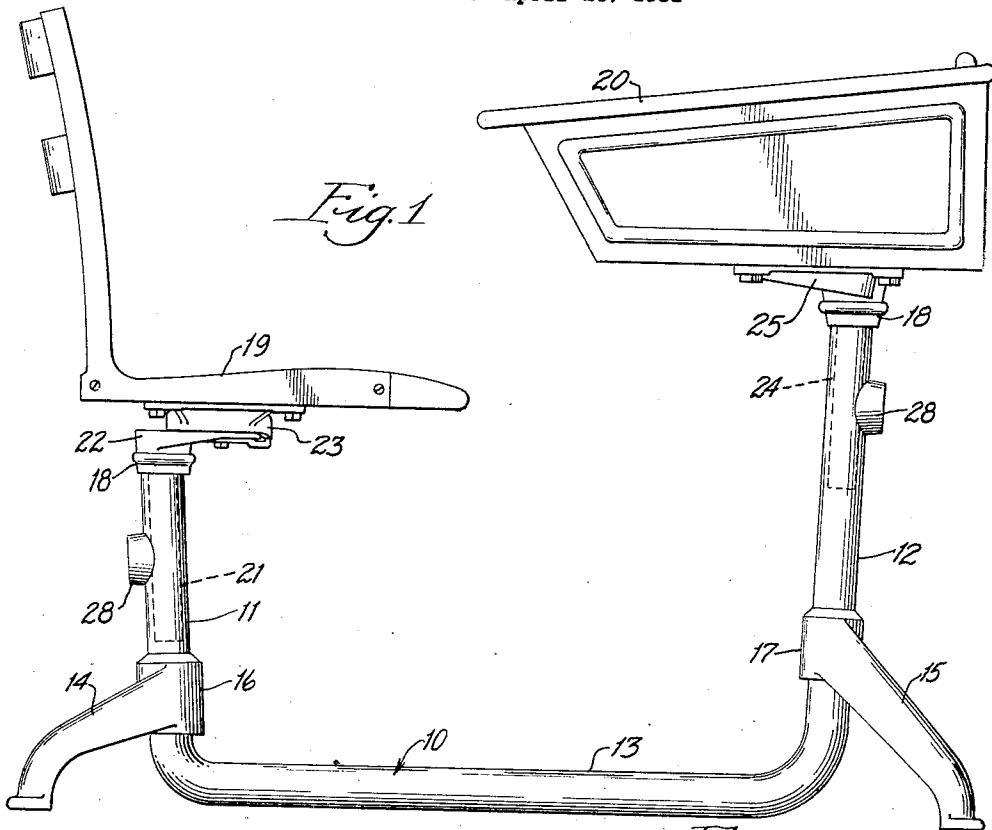
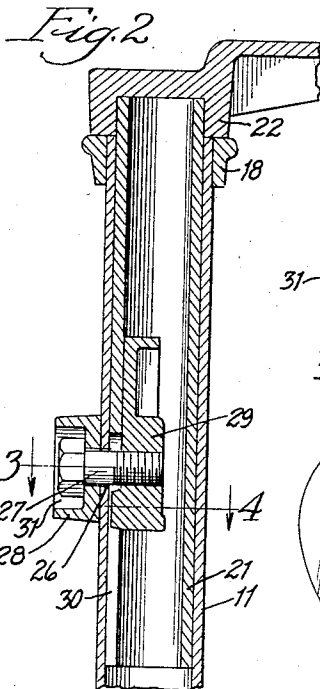
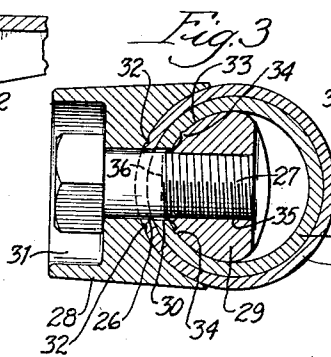
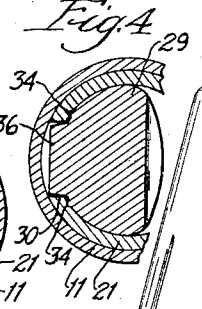
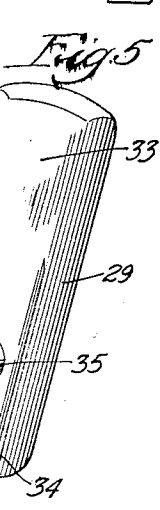
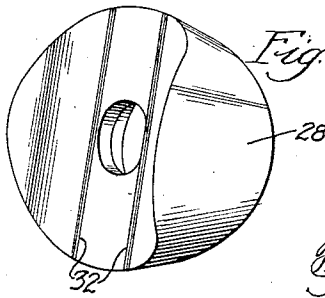


Oct. 25, 1932.

G. H. ABBOTT
COMBINED DESK AND SEAT
Filed April 23, 1931

1,884,497



Inventor:
George H. Abbott,
By *Wm. H. H. H. H. H.*
Attys.

UNITED STATES PATENT OFFICE

GEORGE H. ABBOTT, OF ELGIN, ILLINOIS, ASSIGNOR TO WOODRUFF & EDWARDS, INC.,
OF ELGIN, ILLINOIS, A CORPORATION OF ILLINOIS

COMBINED DESK AND SEAT

Application filed April 23, 1931. Serial No. 532,157.

This invention relates in a general way to furniture, and more particularly to a combined desk and seat suitable for use in schools, offices and the like. The principal object of this invention is to provide novel means whereby the desk and seat may be adjusted vertically and effectively secured in any adjusted position.

Another object is to provide clamping means which shall in no manner disfigure the ornamental appearance of the structure. Another object is to provide clamping means which will enable the parts to be readily assembled and adjusted to desired position.

An exemplification of the invention is set forth in the accompanying drawing in which—

Figure 1 is a side elevation of a complete desk and seat embodying the invention;

Fig. 2 is a detail fragmental vertical section of the seat supporting portion;

Fig. 3 is a detail horizontal cross section taken on the line 3 of Fig. 2;

Fig. 4 is a fragmental horizontal cross section taken on the line 4 of Fig. 2;

Fig. 5 is a perspective view of the inner clamping block which forms part of the clamping means; and

Fig. 6 is a perspective view of the outer clamping block.

Referring to said drawing, the reference character 10 designates a tubular frame of substantially U-shape having upwardly extending hollow heads 11 and 12 connected by a horizontal part 13. The frame is supported in upright position by legs 14 and 15 which are formed integrally with collars 16 and 17 that are rigidly secured upon the upright heads 11 and 12. The legs at each end of the frame diverge from the associated collar and project downwardly and outwardly therefrom in oblique lines, thereby providing a relatively wide base for the structure. Rigidly secured to the upper end of each upright head 11 and 12 is an ornamental collar 18 which provides a finish for the upper end thereof.

Adjustably supported by the tubular head 11 is a seat portion 19, and adjustably supported by the tubular head 12 is the desk

portion 20. The seat is carried by a tubular stem 21 which extends into the hollow of the head 11 and has a bracket arm 22 rigidly secured upon its upper end which arm forms one member of a swivel connection 23 for the seat portion 19. The desk portion 20 is also mounted upon a tubular stem 24 which is contained in the hollow of the head 12 and has a bracket 25 rigidly secured upon its upper end, bolted or otherwise fastened to the bottom of the desk. The tubular stems 21 and 24 are mounted in the heads 11 and 12 for vertical adjustment therein, and as the means for clamping the stems in any position of adjustment are similar, I shall describe one of them in detail, it being understood that such description applies to the clamping means for the seat portion and the desk portion.

Extending through an aperture 26 in the tubular head 11 is a cap screw or bolt 27, the head of which impinges upon an outer clamping block 28 and the threaded stem of which is threadedly engaged with an inner clamping block 29. The tubular stem 21 is formed with a longitudinally extending slot 30 in one side thereof through which the threaded stem of the bolt passes, whereby the stem 21 and therewith the seat portion 19 or desk 20, as the case may be, may be raised or lowered relative to the clamping means for the purpose of vertical adjustment.

The outer clamping block is preferably in the form of a cylindrical or slightly tapered body having a recess 31 in its outer side for the reception of the head of the cap screw or bolt 27, whereby the head thereof is practically concealed from view. The face of the outer clamping block which engages with the tubular head 11 is cylindrical in form so as to conform to the cylindrical outer face of the head and, desirably, two parallel sharp ridges 32 are formed on the cylindrical inner face of the outer clamping block, which ridges extend lengthwise of the cylindrical face and are adapted to bite into the outer face of the head 11 when the parts are clamped together to thereby prevent any possible misalignment of the clamping block with respect to the head 11.

The inner clamping block 29 is somewhat elongated, as shown, and is provided with a curved face 33 which is adapted to bear against the inner face of the hollow stem 21 at places disposed at the sides of the slot 30. Desirably the curved face 33 of the inner clamping block is formed with two parallel longitudinally extending sharp ridges 34 which are adapted to bite into the inner face of the tubular stem 21 so as to effectively prevent any possible misalignment of the inner clamping block with respect to the stem.

Adjacent the threaded aperture 35 of the inner clamping block the latter is formed with a lug 36 on its curved face 33 which is adapted to enter the slot 30 of the tubular stem 21, and desirably the side edges of the lug 36 are slightly tapered, as shown in Figs. 4 and 5, so as to wedgingly engage with the side edges of the slot 30, whereby when the cap screw is screwed up tight, portions of the wall of the tubular stem adjacent the slot 30 are spread slightly and the head 11 and stem 21 are more effectively clamped between the inner and outer clamping blocks.

To adjust either tubular stem 21 in its associated head, the cap screw is turned back sufficiently to release the inner and outer clamping blocks from the head and stem and after the adjustment has been made, the cap screw is screwed home again. As a preference, the slot 30 is made a trifle wider than the stem of the cap screw so as to facilitate the insertion of the hollow stem past the cap screw when assembling the stem with the assembled head and clamping means, and by providing a lug with beveled edges upon the inner clamping block which engages the edges of the slot 30, a wedging action is obtained as well as the frictional gripping action which is obtained by the outer and inner clamping blocks upon the interposed head and stem.

I claim:

1. In an article of furniture, the combination of an upright tubular head formed with an aperture in one side thereof, a tubular article supporting stem formed with a longitudinally extending slot adapted to coincide with the aperture in the head, an outer clamping block having a curved inner face adapted to conform to the outer face of the tubular head and having a pair of longitudinally spaced sharp ridges adapted to bite into the outer face of the tubular head, an inner clamping block arranged to engage the inner face of the tubular stem, and a bolt extending through the aperture and slot and threadedly engaging the inner clamping block.

2. In an article of furniture, the combination of an upright tubular head formed with an aperture in one side thereof, a longitudinally slotted tubular article supporting stem within the head, an outer clamping block hav-

ing a curved face conforming to the face of the tubular head, an inner elongated clamping block formed with a pair of longitudinally spaced sharp ridges adapted to bite into the inner face of the tubular stem, a tapered lug projecting from said block between said ridges and normally engaging the sides of the slot in said stem, and a bolt having a head engaging the outer clamping block, and a stem extending through said aperture and slot and threadedly engaging with the inner clamping block.

3. In an article of furniture, the combination of an upright tubular head formed with an aperture in one side, a longitudinally slotted tubular article supporting stem within said head, an outer clamping block having a curved face embracing the sides of the tubular head, an inner clamping block having a face normally engaging with the inner face of the tubular stem at places adjacent the slot thereof and formed with a tapered lug adapted to impinge against the side edges of the slot of the tubular stem, and a bolt having a head engaging the outer clamping block and a threaded stem threadedly engaging the inner clamping block.

GEORGE H. ABBOTT.