

No. 872,905.

PATENTED DEC. 3, 1907.

J. CONNORS.
ATTACHABLE TABLE.

APPLICATION FILED SEPT. 18, 1906. RENEWED NOV. 1, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

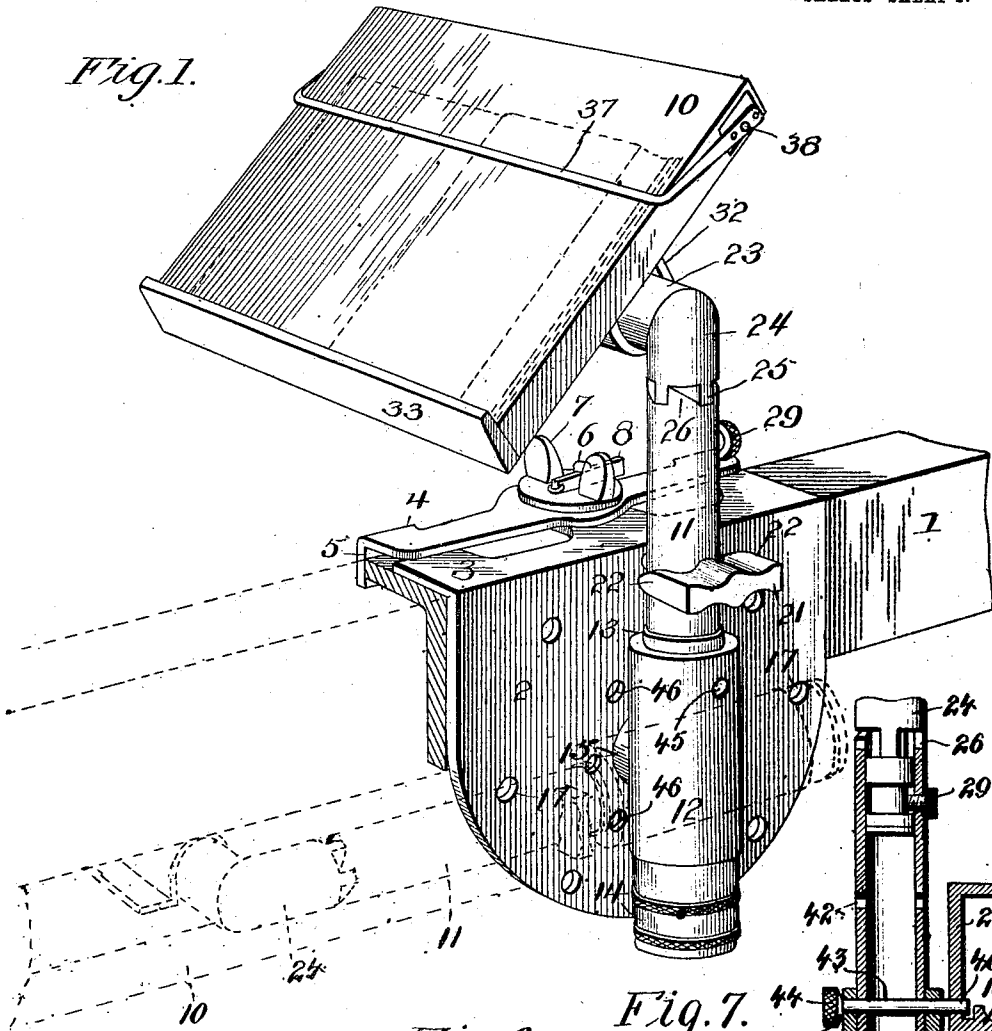


Fig. 6.

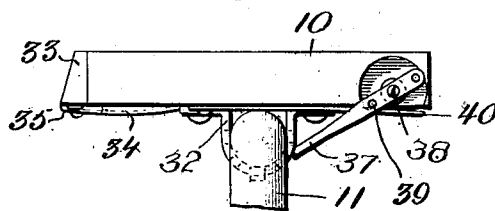
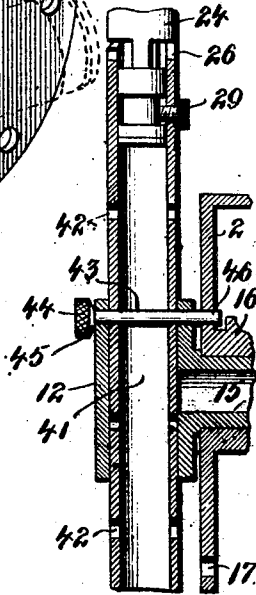


Fig. 7.



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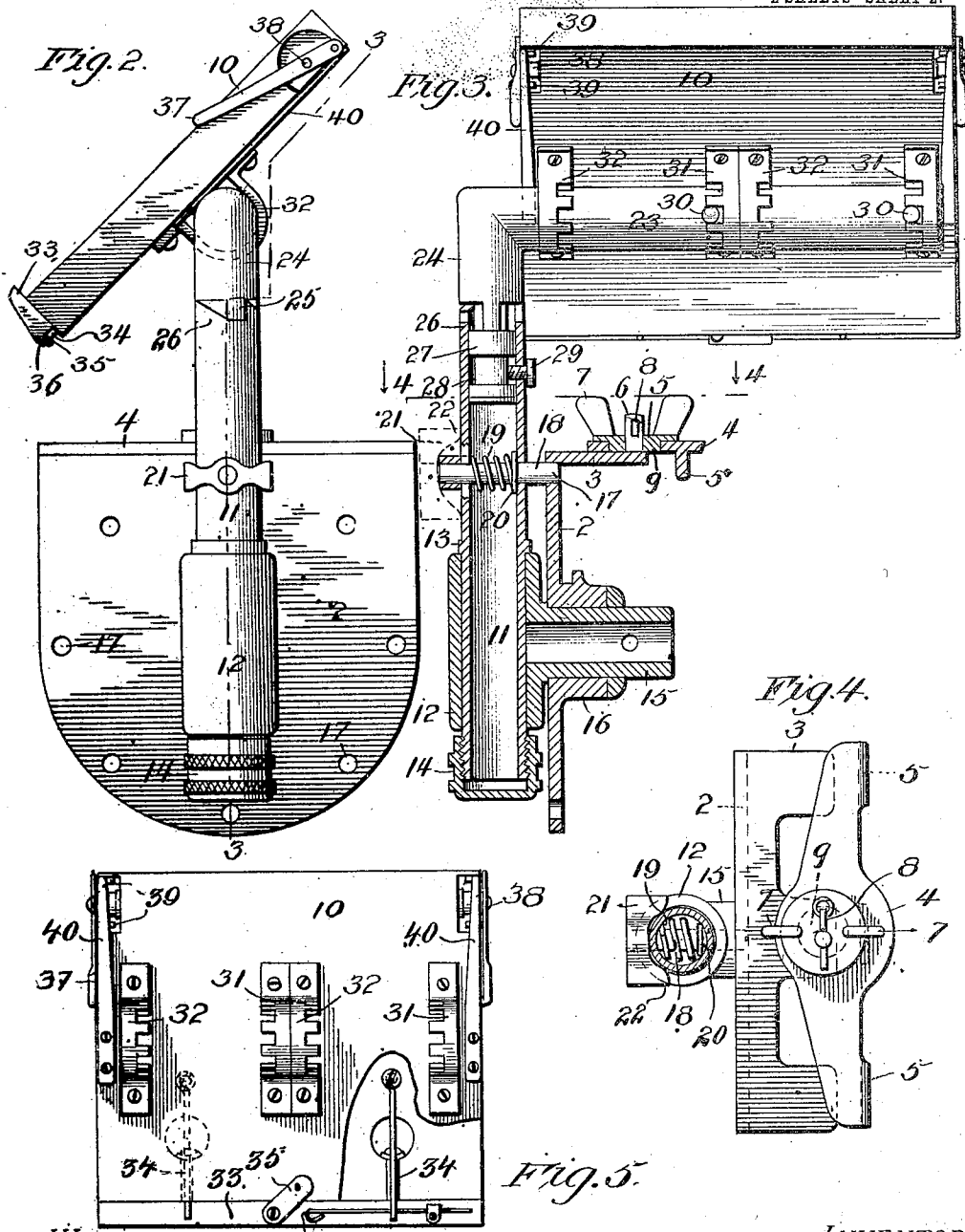
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

JOSEPH CONNORS, OF LOUISVILLE, KENTUCKY.

ATTACHABLE TABLE.

No. 872,905.

Specification of Letters Patent.

Patented Dec. 3, 1907.

Application filed September 18, 1906, Serial No. 335,133. Renewed November 1, 1907, Serial No. 400,271.

To all whom it may concern:

Be it known that I, JOSEPH CONNORS, citizen of the United States, residing at Louisville, in the county of Jefferson, State of Kentucky, have invented certain new and useful Improvements in Attachable Tables, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to a table attachment, and particularly to a device adapted to be adjustably supported for use as a table or reading desk attached to any desired article of furniture.

15 The invention has for an object to provide a novel and improved construction and arrangement of parts for attaching the table to an article of furniture, and also for adjusting the same in a vertical plane and curved path
20 upon its support, and also in a curved path at a right angle thereto together with a horizontal adjustment of the table whereby the same may be retained either in a horizontal plane or inclined thereto, as when used for
25 a reading desk.

Other and further objects and advantages of the invention will be hereinafter set forth and the novel features thereof defined by the appended claims.

30 In the drawings:—Figure 1 is a perspective of the invention; Fig. 2 is a side elevation thereof; Fig. 3 is a section on line 3—3 of Fig. 2; Fig. 4 is a horizontal section on the line 4—4, Fig. 3; Fig. 5 is a rear elevation of the
35 table, Fig. 6 is an edge view of the table adjusted for use in a horizontal plane, Fig. 7 is a detail vertical section showing a modified form of post.

40 Like numerals of reference indicate like parts in the several views of the drawings.

The invention is adapted for application to a bed, chair or other article of furniture by any desired means, a preferred form thereof being herein shown, in which the numeral 1
45 designates a portion of a bed frame to which the invention is applied by means of the plate 2 bearing against the outer surface thereof and provided with a top plate 3 which receives the clamping plate 4 having
50 depending portions 5 to engage the edge of the frame and thereby retain these parts in position. The adjustment of this clamping plate 4 is effected by means of the cam 9, Fig. 4, which is pivotally mounted upon the
55 post 6 extending upward from the plate 3 and disposed within a proper aperture in the plate

4. This cam is attached to a thumb nut 7 by which it is operated. The adjustment of the clamping plate 6 is effected by the cam and the parts are adapted to be locked in position
60 by means of the wedge 8 (Fig. 1) which extends through a slot in the extended end of the post 6 and by contact with the face of the wing or thumb nut 7 retains it by frictional contact in its adjusted position. 65

The table 10 is supported upon the post 11 which is pivotally mounted upon the plate 2 in any desired manner, for instance by means of the sleeve 12 through which the post passes. The post is provided with the shoulder 13 to rest upon the top of the sleeve and is clamped in position thereon by the cap 14 bearing against the opposite end of the sleeve. This sleeve is provided with an angular extension 15 disposed within a bearing
75 16 carried by the inner face of the plate 2. This plate is provided with a series of retaining apertures 17 disposed in a curved path surrounding the axis of the sleeve, and the post is adapted to be retained in any of its
80 adjusted positions in a vertical plane by means of the automatic latch 18 carried by the post to travel in an arc corresponding to the apertures 17. This latch is normally held in contact with the plate by means of
85 the spring 19 disposed within the post and bearing upon a projection 20 carried by the latch, while the latch is withdrawn by means of the cam head 21 having the inclined faces
90 22 which when in contact with the post places the spring under tension and withdraws the latch from the aperture, as shown by dotted lines in Fig. 3, and when turned at right angles to the position shown in Fig. 1 permits the latch to seat in one of the aper-
95 tures 17.

For the purpose of supporting the table 10 from a horizontal point an arm 23 is provided and has the angular portion 24 depending therefrom which is formed with angular
100 teeth 25 adapted to contact with the cooperating beveled teeth 26 carried at the upper portion of the post by which means the arm may be swung in one direction while resisting such movement in the opposite direction. 105 Depending from the portion 24 is a stem 27 provided with an annular groove 28 surrounding the same into which a retaining screw 29 passes so as to prevent a complete withdrawal of the arm from the post while
110 still permitting a rotative movement thereon, and a limited vertical movement. This

means permits a rotative adjustment of the table in a horizontal plane.

For the purpose of permitting the adjustment of the table at the desired inclination the arm 23 is provided with pins 30 adapted to engage in toothed bands 31 secured to the back of the table and surrounding the arm, as shown in Fig. 3. By this means the table may be held in a horizontal plane or inclined relative thereto, while it may also be slid longitudinally on the arm when it is desired to draw the same in that direction, and the pins 30 will then engage with the supplemental toothed bands 32 which travel into contact with said pins in such movement.

Any desired construction of table 10 may be used, but a preferred arrangement thereof for use as a reading desk comprises the adjustable strip 33 yieldingly mounted upon the springs 34 by which it is normally held in raised position under tension by means of spring 34 bearing thereon, while this strip is also provided with an automatic latch 35 under tension of spring 36 so that when the strip is depressed the latch is automatically forced into contact with the body of the table and holds the strip flush therewith, as shown in Figs. 5 and 6. The upper portion of the table is provided with a book or paper holder 37 pivotally mounted thereon at its upper ends 38 and there provided with pins 39 disposed at opposite sides of the pivot and adapted in the travel of this holding loop to contact with the flat springs 40 secured at the back of the table and thus retain the holder in either of its adjusted positions.

If it be desired to vertically adjust the table a supplemental post, as shown in Fig. 7, may be used instead of the post 11 shown in Fig. 1. This supplemental post, as shown at 41 is provided with apertures 42 there-through and slidingly mounted within the sleeve 12 so as to be adjusted to the desired extent therein and is held at such adjustment by the securing pin 43 which is provided with the head 44 and passed through the aperture 45 in the sleeve 12 and also through one of the series of securing apertures 46 disposed in the plate 2. As shown in Fig. 1 these securing apertures are preferably disposed in a curved path concentric to the aperture 17 so as to permit the post to be swung to the desired angle and there secured by its pin which need only be withdrawn from contact with the holding plate when such rotary adjustment is desired. It will be seen that this form of post may be readily substituted for that shown in the other figures of the drawing and permits a vertical adjustment of the table whenever necessary or desirable due to the elevation of the bed frame from the floor, or other causes.

In the operation of the invention it will be seen that when the parts are adjusted as shown in Fig. 1 the table may be used as a

reading desk upon a bed or other article of furniture and is adapted for a rotative adjustment in a vertical plane and also in a horizontal plane together with an adjustment of the inclination of the table upon its supporting arm. This permits the disposition of the table in the most convenient position for reading or other use, and when desired to be used as a flat or horizontal table, the edge strip and holding strip may be removed from the upper surface thereof, as shown in Fig. 6, and the table adjusted in a horizontal plane. It will also be observed that the table is capable of sliding adjustment upon its arm in order to be drawn directly in front of the user when the length of the arm is not ordinarily sufficient for that purpose. The attaching device is such as to permit a scope of adjustment sufficient for engaging the frame of a bed, chair, or other article of furniture where it may be desirable to attach the table, and the securing wedge firmly holds the adjusting cam in position. When it is desired to entirely remove the table from above the bed it may be swung downward and beneath the same as shown by dotted lines in Fig. 1, thus avoiding any inconvenience in entering or leaving the bed.

Having now described my invention and set forth its merits, what I claim and desire to secure by Letters Patent is:—

1. In a device of the class described, a supporting plate, a post pivotally mounted thereon for adjustment in a vertical plane, an automatic latch carried by said post to engage an aperture in said plate, and a head for rotating said latch having a withdrawing face adapted to contact with said post.

2. In a device of the class described, a supporting plate, a post pivotally mounted thereon for adjustment in a vertical plane, an automatic latch carried by said post to engage an aperture in said plate, a head for rotating said latch having a withdrawing face adapted to contact with said post, and a spring within said post bearing upon a projection carried by said latch.

3. In a device of the class described, a post, an arm having a stem extended in said post and mounted for longitudinal movement therein, a toothed connection between the upper end of said post and said arm comprising a beveled tooth on one member and a straight walled tooth upon the other, and a table carried by said arm.

4. In a device of the class described, a securing plate provided with a post upon its upper surface, a cam mounted upon said post, a clamping plate mounted upon said cam, means for rotating said cam, and means for frictionally retaining said cam in its adjusted position.

5. In a device of the class described, a securing plate provided with a post upon its upper surface, a cam mounted upon said

post, a clamping plate mounted upon said cam, means for rotating said cam, and a wedge extending from said post to frictionally hold said cam.

5 6. In a device of the class described, a post provided with a supporting arm, projections carried by said arm, a table, and a toothed band secured to the table and surrounding said arm to engage the projections there-
10 from.

7. In a device of the class described, a post provided with a supporting arm, projections carried by said arm, a table, a toothed band secured to the table and surrounding said
15 arm to engage the projections therefrom, and a supplemental toothed band carried by the table to engage said projections in the longitudinal movement of the table upon said arm.

20 8. In a device of the class described, a table provided with a holding strip yieldingly mounted at one edge thereof, and an auto-

matic latch for said strip to engage the body of the table when the strip is depressed.

9. In a device of the class described, a ta- 25 ble provided with a holding strip yieldingly mounted at one edge thereof, and a latch plate pivoted upon said strip under tension to engage the body of the table when the strip is depressed.

10. In a device of the class described, a ta- 30 ble provided with a holding loop extending for the length thereof and pivotally mounted at the opposite ends of the table and projections at opposite sides of said pivot, and a 35 spring carried by the table in the path of travel of both projections.

In testimony whereof, I affix my signature in presence of two witnesses.

JOSEPH CONNORS.

Witnesses:

JOSEPH SANDFORT,

ALPHONSE J. MALBOEUF.