

June 7, 1932.

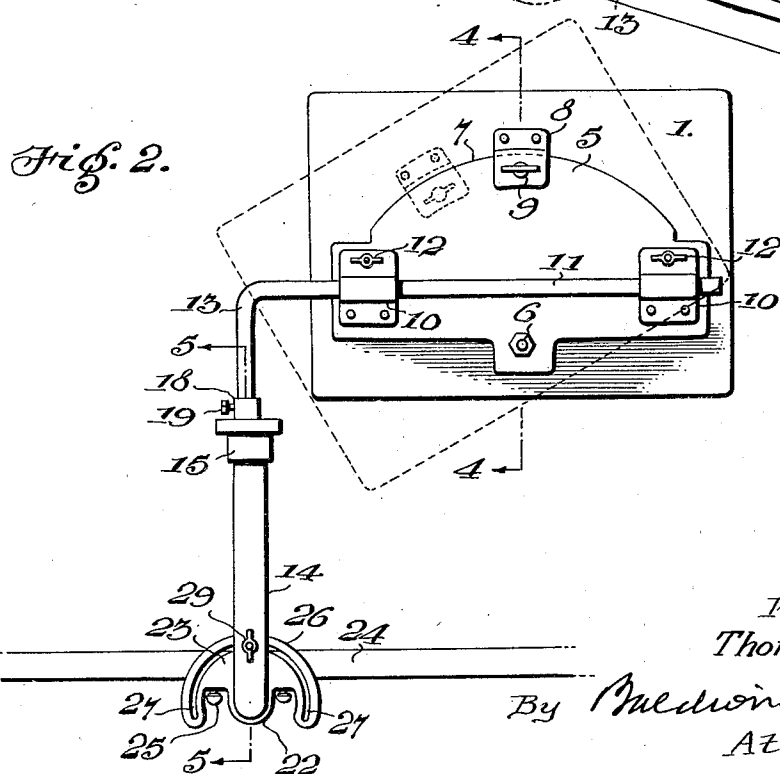
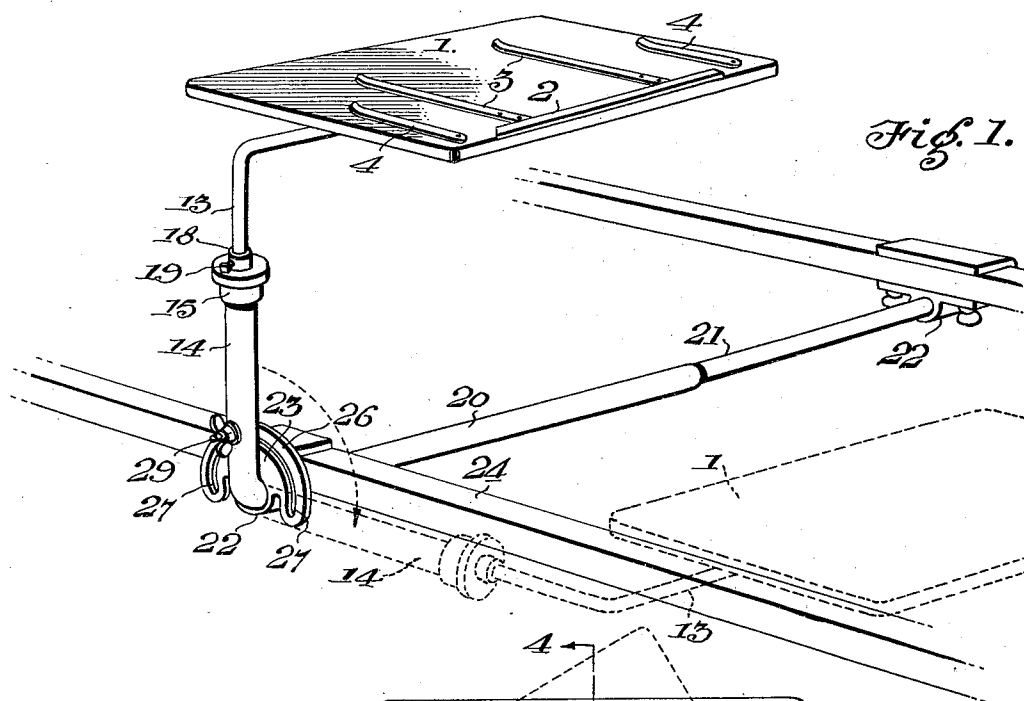
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1,862,237

BED TABLE

Filed June 17, 1931

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 3.

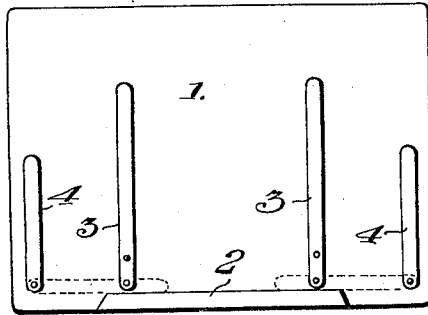


Fig. 4.

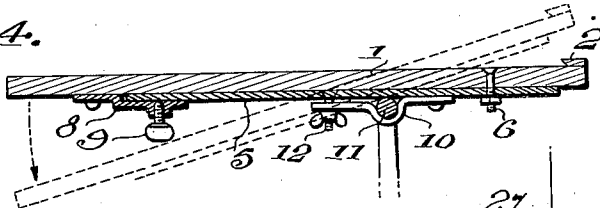


Fig. 6.

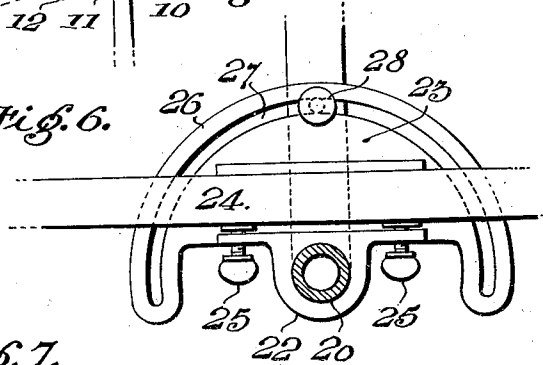


Fig. 5.

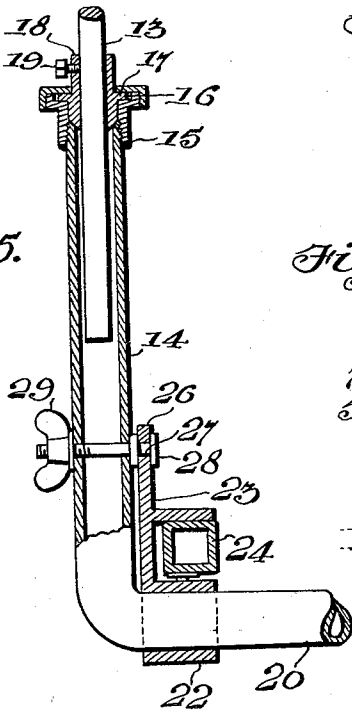
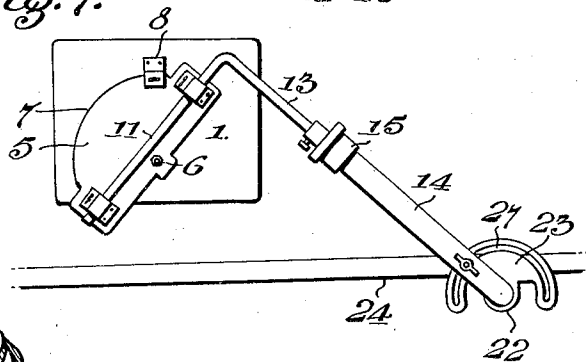


Fig. 7.



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UNITED STATES PATENT OFFICE

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BED TABLE

Application filed June 17, 1931. Serial No. 545,112.

The invention relates to adjustable supports and more particularly to devices of this character adaptable for mounting on a bed or the like to be used by bedridden persons for suitably supporting books, papers, trays or similar articles, and which are adjustable to adapt them to various positions of use.

An object of the invention is to provide a device of the character stated which is equipped with novel mounting means adapting it to be secured upon ordinary beds of various sizes by engagement with both side rails so as to provide a particularly rigid mounting assuring against inadvertent collapsing, vibration or other undesirable changes of position.

Another object of the invention is to provide novel means whereby the supporting table may be adjusted more or less universally to suit the position in which the user can rest in comfort, and even to the extent of collapsing the device out of sight beneath the bed without removing it from its mounting on the bed.

The invention further resides in the provision of novel means for effecting adjustment of the degree of elevation of the table above the bed, and also for varying the angularity of the table support without effecting the elevation adjustment.

Other objects will in part be obvious and in part be pointed out hereinafter.

To the attainment of the aforesaid objects the invention still further resides in the novel details of construction, combination and arrangement of parts, all of which will be first fully described in the following detailed description, then be particularly pointed out in the appended claims, reference being had to the accompanying drawings in which.

Figure 1 is a somewhat diagrammatic perspective view illustrating the invention in use upon a bed, the device being shown collapsed under the bed in dotted lines;

Figure 2 is a side elevation of the device, the table proper being adjusted so as to present its under face to view, the adjustability of the angularity of the table with relation to its mounting rod being indicated in dotted lines;

Figure 3 is a front face view of the table proper;

Figure 4 is detail cross sectional view taken on the line 4—4 on Figure 2, the adjustability of the table about the axis of its mounting rod being indicated in dotted lines;

Figure 5 is an enlarged detail vertical cross section taken on the line 5—5 on Figure 2;

Figure 6 is an inside face view of the adjustable mounting bracket shown in Figure 5, and

Figure 7 is a somewhat diagrammatic side elevation illustrating the invention adjusted to enable a user to read comfortably while lying in bed.

In the practical development of the invention I provide a table proper designated 1, which may be in the form of a rectangular board of suitable thickness, or may be formed of metal if so desired. The table 1 is provided at its lower edge with a supporting ledge 2 which will serve to support books or papers resting upon the table, and overcome any tendency of these articles to slide off the table when it is adjusted to an inclined position before the user.

The table 1 is also provided with paper or book holding spring clips 3 which are preferably formed of resilient metal and secured at one end only so as to facilitate the insertion of books or papers beneath the same and also to provide for the maximum resiliency of which these elements are capable. Additional spring clips 4 may be provided and these clips, and also the clips 3, if so desired, are pivoted at their attached ends so that they may be folded down adjacent the ledge provided edge of the table so as to present an unobstructed upper face of the table proper when so desired.

A mounting plate 5 is provided beneath the table 1 and the table is pivotally secured to the plate by a bolt or pintle 6. The plate is provided with an arcuate edge 7, the arc on which it is formed being struck from the axis of the bolt 6, and the table 1 has secured thereto a bracket 8 having a portion which overhangs the arcuate edge 7 and is equipped with a clamp screw 9.

By reason of the pivotal connection of table 1 with the plate 5 through the medium of the bolt 6 it is possible to adjust the table relatively to the plate in the plane of the table and by manipulation of the clamp screw 9 the table may be secured in its various positions of adjustment about the pintle 6. The screw 9 and bracket 8 also serve to clamp the table proper down tightly against the supporting plate. See Figures 2 and 4.

Similar bracket plates 10 are secured to the plate 5 and are provided with partially rounded portions to receive the mounting rod 11, clamp screws 12 being provided for clamping the brackets 10 tightly against the rod 11. By the equipment just described the plate 5 and the table 1 carried thereby may be rotatably adjusted about the axis of the rod 11, being secured at its positions of adjustment by the clamp screws 12.

The rod 11 is usually disposed horizontally and this rod merges with a vertical standard portion 13 which is vertically adjustable in, and angularly adjustable about the vertical axis of a tubular standard 14. For this purpose the standard 14 is threaded at its upper end to receive the internally threaded cap 15 which is formed to provide an annular recess 16 which rotatably receives the collar 17 of a clamp sleeve 18 surrounding the rod portion 13. A set screw 19 threads through a receiving bore in the sleeve 18 and engages the rod portion 13. By loosening and again tightening the set screw 19 it is possible to adjust the rod portion 13 vertically for the purpose of varying the elevation of the table 1 above the bed and to suitably secure this adjustment. By threading the cap 15 downwardly on the standard 14 it will so engage the collar 17 as to force the lower end of the sleeve 18 into tight frictional engagement with the upper end of the standard 14 and thus secure the rod portion 13 at any desired adjustment about the axis of the standard 14. See Figure 5.

From the above it will be apparent that the clamping or securing devices 19 and 15 are independent and it is possible to adjust either without disturbing the adjustment secured by the other.

The standard 14 is secured to or is bent to form a horizontal tubular portion 20 in which a second tube 21 is telescopically mounted in a manner adapting the invention to use on beds of various widths. The horizontally disposed supporting tubes 20 and 21 are rotatably mounted in bearings 22 carried by brackets 23 which include a portion adapted for engagement with the side rails 24 of the bed and equipped with clamp screws or similar securing means for securing the brackets and the composite tubular support carried thereby to the bed rail. By thus securing the device upon a support rigidly attached to both bed rails, a particularly strong and

rigid device is provided which will be incapable of twisting movements, excessive vibration or other undesirable position changes to which devices of this type are usually subjected.

The bracket 23 at the standard side of the bed is equipped with a wing support extension 26 which may be provided with an arcuate slot 27 to receive the clamp bolt 28 carried by the standard 14 through which medium, and the wing nut 29 carried by the bolt 28, it is possible to secure the standard 14 in vertical position or at various inclinations to the vertical. See Figures 5 and 6.

Preferably, the slot 27 is made long enough so that the standard 14 may be swung down far enough to assume a horizontal position just below the level of the adjacent side rail of the bed. When the standard is swung to this position it is possible to so adjust the mounting rod 11, 13 and the table 1, that the device may be collapsed under the bed and out of sight in the manner indicated in Figure 1 of the drawings.

By swinging the standard part way down and adjusting the mounting rod 11, 13 wholly or partially in the plane of adjustment of the standard 14, and by suitably adjusting the table about its pivotal connection 6, it is possible to adjust the device so that a user may comfortably read while lying on his side. See Figure 7.

In the foregoing description I have disclosed a bed table having provision for securing papers or books thereon, and which is mounted in a more or less universally adjustable manner to adapt it for being collapsed out of sight under the bed or in any desired position of use.

From the foregoing description taken in connection with the accompanying drawings, it is thought that the novel details of construction, the manner of use and the advantages of my invention will be readily apparent to those skilled in the art to which it relates.

I claim:

1. In a bed table, a mounting rod including a vertical portion and a horizontal portion, a supporting plate having an arcuate edge, spaced bracket plates secured to said supporting plate and forming bearings for receiving the horizontal portion of said rod, means for clamping one of said bracket plates against said rod portion whereby said supporting plate may be locked in various positions of adjustment about the axis of the horizontal rod portion, a table proper supported on said supporting plate, a pintle located in the axis of said arcuate edge and connecting said table proper and said supporting plate for pivotal movement substantially in the plane of said horizontal rod portion, and means for locking said table proper against movement about said pintle.

2. In a bed table, a mounting rod including a vertical portion and a horizontal portion, a supporting plate having an arcuate edge, spaced bracket plates secured to said supporting plate and forming bearings for receiving the horizontal portion of said rod, means for clamping one of said bracket plates against said rod portion whereby said supporting plate may be locked in various positions of adjustment about the axis of the horizontal rod portion, a table proper supported on said supporting plate, a pintle located in the axis of said arcuate edge and connecting said table proper and said supporting plate for pivotal movement substantially in the plane of said horizontal rod portion, a bracket secured to said table proper adjacent the arcuate edge of said supporting plate, a portion of said bracket underlying the supporting plate, and a set screw threaded in said underlying portion and bearing against the bottom of said supporting plates, said set screw and bracket functioning dually to maintain the table proper both in adjusted position about said pintle and tightly clamped down on the supporting plate.

In testimony whereof, I have hereunto subscribed my name.

THOMAS PEPLER.