J. DIOU.

BED TABLE.

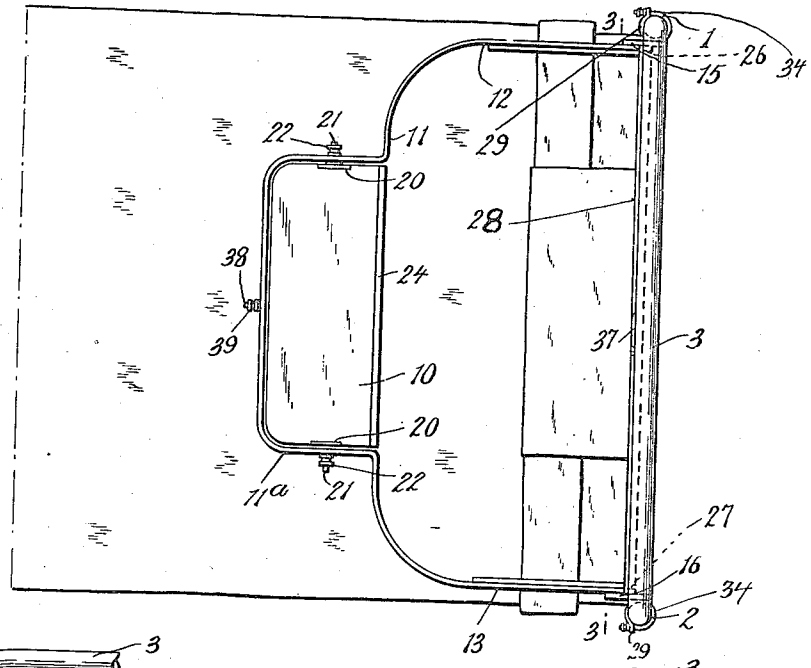
APPLICATION FILED JUNE 14, 1918.

1,293,631.

Patented Feb. 4, 1919.

2 SHEETS—SHEET 1.

Fig. 1.



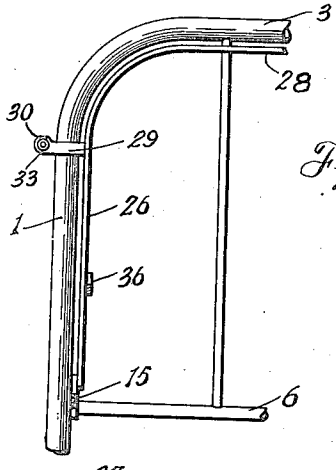
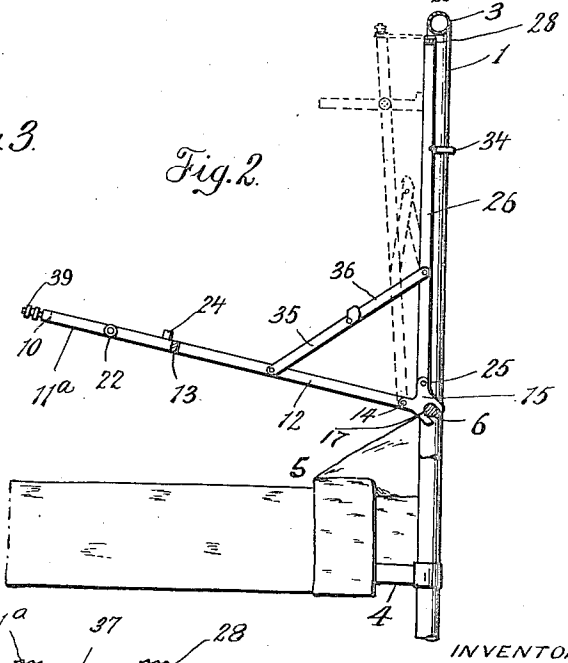


Fig. 3.

Fig. 2.



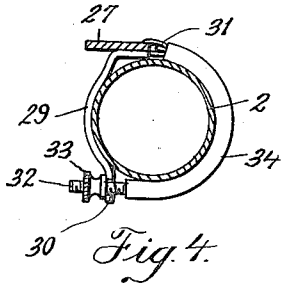


Fig. 4.

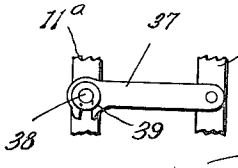


Fig. 5.

INVENTOR

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by his attorney

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BED TABLE.

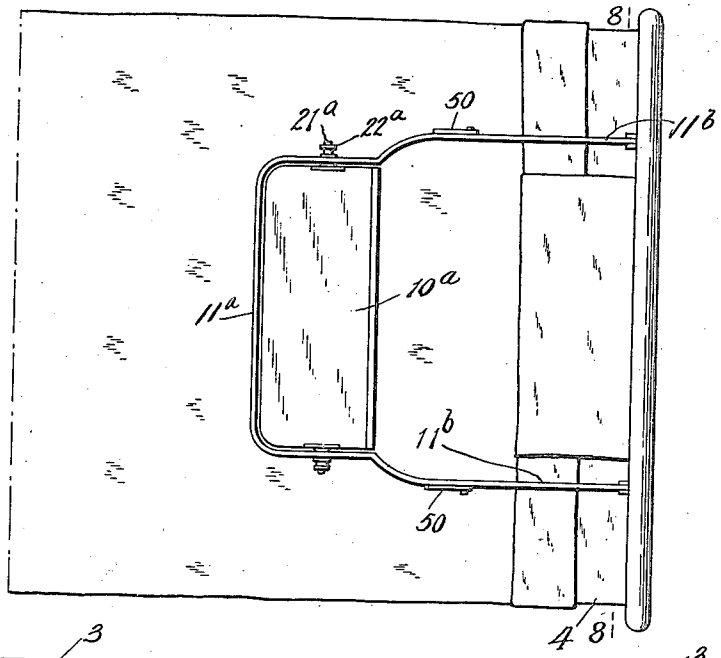
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1,293,631.

Patented Feb. 4, 1919.

2 SHEETS—SHEET 2.

Fig. 6.



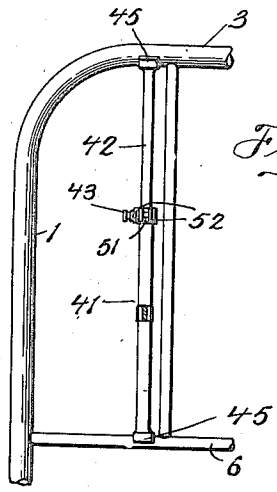


Fig. 8.

Fig. 7.

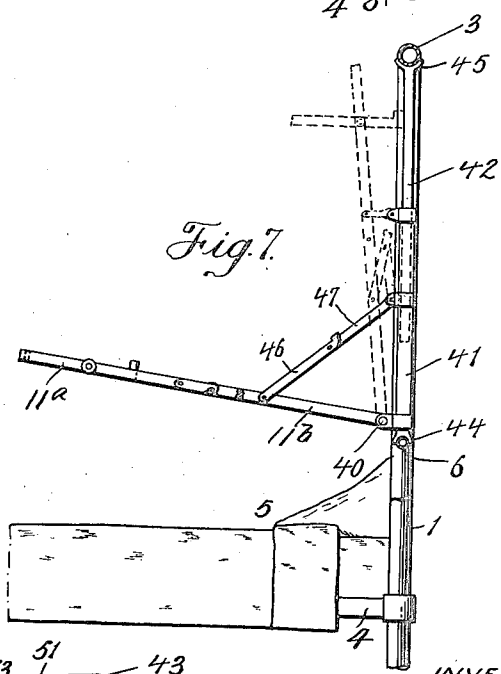
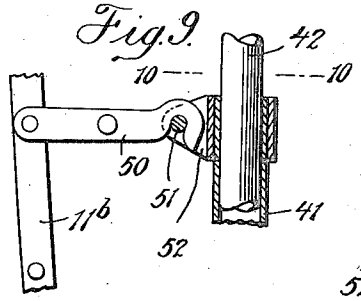


Fig. 9.



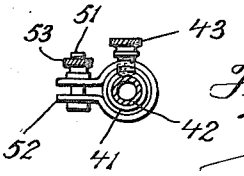


Fig. 10.

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UNITED STATES PATENT OFFICE.

JULIAN DIOU, OF NEWARK, NEW JERSEY.

BED-TABLE.

1,293,631. Specification of Letters Patent. Patented Feb. 4, 1919.

Application filed June 14, 1918. Serial No. 240,034.

To all whom it may concern:

Be it known that I, JULIAN DIOU, a citizen of the United States, and resident of Newark, in the county of Essex and State of New Jersey, have invented certain new nd useful Improvements in Bed-Tables, of which the following is a specification.

This invention relates to a bed table, and it has for an object to provide a device of this kind which may be mounted upon the bed frame in such a manner that it may be readily moved to a desired position in front of the occupant of the bed, or removed from such position.

More specifically, the invention has for an object to provide a bed table which may be hinged to the bed frame to either be swung downwardly to constitute a table or support for an object, such as a plate, dish, book or any other object in use by the occupant, or swung upwardly to constitute a shelf on which may be placed such objects as may be desired.

The invention has also for an object to provide a bed table of this type of simple and inexpensive construction and capable of easy attachment to, and detachment from, the frame of the bed.

For further comprehension of the invention, and of objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

This invention is intended more particularly for use on the beds of invalids, since it will be of peculiar value in such cases, but it is to be distinctly understood that no limitation is placed upon the use to which the invention may be put.

I also employ the term, bed table, as a convenient method of designating the invention and not in a limiting sense, it having a more extended use than that of a simple table.

Figure 1 of the drawings, is a plan view of a portion of a bed having the invention applied thereto.

Fig. 2 is a side elevation, partly broken away, thereof.

Fig. 3 is a fragmentary transverse section on the line 3—3 of Fig. 1.

Fig. 4 is an enlarged horizontal section of one of the bed posts, showing particularly the manner of clamping my device thereto.

Fig. 5 is a fragmentary plan view showing the means for securing the table in its upper position.

Fig. 6 is a similar view to Fig. 1 showing a modified form of the invention.

Fig. 7 is a side elevation, partly broken away, thereof.

Fig. 8 is a fragmentary transverse section on the line 8—8 of Fig. 6.

Fig. 9 is an enlarged detail view of the means for securing the tray in its upper position.

Fig. 10 is a horizontal section on the line 10—10 Fig. 9.

In the drawings 1 and 2 indicate the side posts of the head frame member of a bed, and 3 the top connecting bar. A small portion of the spring supporting structure is shown at 4. The bed proper, that is to say mattress, pillow, coverings, etc., is indicated generally by the numeral 5, while 6 indicates the usual transverse bar which in all metallic beds extends horizontally between the bed posts a short distance above the bed proper. These parts may be of any suitable or well known construction since the precise construction of the bed forms no part of my invention which is applicable to all ordinary types of metallic bed frames.

My improved bed table comprises a member 10, which may constitute a tray, table or shelf, and which is hinged in the outer end of an arched bar 11, whose legs 12 and 13 are hinged as at 14 upon a pair of angle-pieces 15 and 16 each provided with a notch 17 to fit over the horizontal bar 6 of the bed frame.

The connection between the table 10 and arched bar 11 may conveniently comprise a pair of small metallic plates 20 suitably secured to the opposite ends of the tray and provided with fixed screws 21 projecting through suitable apertures in an offset 11^a in the bar and having nuts 22 threaded on their ends. By tightening the nuts 22 the table may be rigidly held in any angular position with respect to the bar 11 since the latter possesses sufficient resiliency to be forced against the plates 20 and be bound tightly between the latter and the nuts 22. The table may be provided with an upwardly projecting ledge 24 to serve to re-

tain articles, such for instance as books, against sliding off the table when the latter is in an inclined position.

The angle plates 15, 16 have pivotally secured thereto also as at 25 the lower ends of the legs 26 and 27 of a second arched bar 28, the legs of this bar extending upwardly adjacent the side posts 1 and 2 and being detachably secured thereto.

Each of the legs 26, 27, has a bracket 29 rigidly fixed thereto and extending across the face of the adjacent bed post and preferably given a curvature approximating the cross section of the post. The outer end of this bracket is provided with a notch 30. Connected at one end in any well known manner to the leg of the arched bar 28 is a chain 31 having attached to its opposite end a screw 32 into which is threaded a nut 33, the chain being preferably covered with a section of rubber tubing 34 or other suitable means to prevent scarring of the post. By pulling the chain around the post and slipping the screw 32 into the notch 30 the leg of the strap may be securely fastened to the bed post by tightening the nut 33. This particular fastening means also accommodates itself to variations in diameter of the bed posts.

The table may be supported in its lower position or that shown in full lines in Figs. 1 and 2, by folding links each comprising a pair of members 35 and 36, hinged to one another at adjacent ends, and to the respective arch bars 11 and 28 at their opposite ends.

It will be obvious that when the table is in its lowered position, it may be tilted to various angles as desired, for use as a table, a support for a book, or otherwise.

It will be noted that when the table is lowered and adjusted to an absolutely horizontal position the offset part of the bar 11 will extend slightly above the level of the table and thus serve as a ledge acting in cooperation with the ledge on the table in preventing accidental displacement of articles from the table.

When not in use by the occupant of the bed the table may be swung upwardly to the position shown in dotted lines in Fig. 2 in which is is not only completely out of the way of the occupant but provides a shelf on which any desired article may be placed. To secure the table in this position I provide a hook 37 hinged to the arched bar 28 and adapted to take over a screw 38 projecting rigidly from the offset 11^a of the bar 11 and be clamped thereto by a nut 39 threaded on the screw 38.

In the modification shown in Figs. 6 to 10 the table proper 10^a is similar to the table 10 already described and is similarly secured by nuts 22^a threaded on screws 21^a to the arched bar 11^a.

In this modification the ends 11^b of the bar are hinged as at 40 to the lower end of a pair of telescoping posts each comprising a lower tubular member 41 into which an upper tubular member 42 projects freely. The tubular members 41 and 42 are provided on their respective lower and upper ends with claws 44 and 45 adapted to partially encircle the horizontal members 3 and 6 of the bed frame.

The table may be supported in its lowered position by the folding links 46, 47, similar to the links 35 and 36, and hinged to the bar 11^a and tubular members 41.

To support the table in its raised position I here employ a pair of hooks 50 which are hinged to the arched bar 11^b and take over screws 51 carried by ears 52 on the tubular members 41, the hooks being clamped between the ears by nuts 53 threaded on the screws 51.

This construction shown in this modification enables the table to be supported at any selected part of the bed, transversely considered, while it may be applied with equal facility to single or double beds.

It will be apparent that various other changes and modifications may be made in my improved bed table without departing from the spirit of the invention and the right is therefore reserved to all changes and modifications coming within the scope of the appended claims.

What I claim and desire to secure by Letters Patent is as follows:

1. A bed table comprising a pair of arched bars, side brackets to which the ends of said bars are independently pivoted in spaced relation to each other, means formed with said brackets for engagement with a transverse member of a bed frame between the posts thereof, means for rigidly attaching one of said bars to said bed frame, and a table member engaging the other of said bars between the ends thereof.

2. A bed table comprising a pair of arched bars, side brackets to which the ends of said bars are pivotally attached, said brackets having notches for engaging a transverse member of a bed frame to support said bars thereon, means for attaching one of said bars to the uprights of the frame of a bed, a table member secured to the other of said bars, and means for holding said bars in adjusted relation to each other.

3. A bed table comprising a pair of arched bars, members adapted to hold one of said bars in fixed relation to the uprights of the frame of a bed, the other of said bars being independently pivoted to swing with respect to the first named bar, side brackets common to both of said bars to which the ends of said bars are pivoted in spaced relation to each other, a table member adjustably supported by said swinging bar, means

formed with said side brackets adapted to engage a transverse member of the bed frame to support said bars thereon, and means for holding said bars in adjusted positions with relation to each other.

4. A bed table comprising a pair of arched bars, angle brackets to which the ends of said bars are pivoted, said brackets being provided with a notch to receive a frame member of the bed, a table member carried adjustably by one of said bars, connections between the other of said bars and the frame of the bed, and means for holding said bars in adjusted positions with relation to each other.

Signed at New York city in the county of New York and State of New York this 6 day of April A. D. 1918.

JULIAN DIOU.

Witnesses:
GEO. N. VERITZAN,
THOS. HOWARD.