Aug. 7, 1928. 1,679,635

S. H. STEINBERG ET AL

INVALID BED

Filed July 28, 1926

FIG. 1.

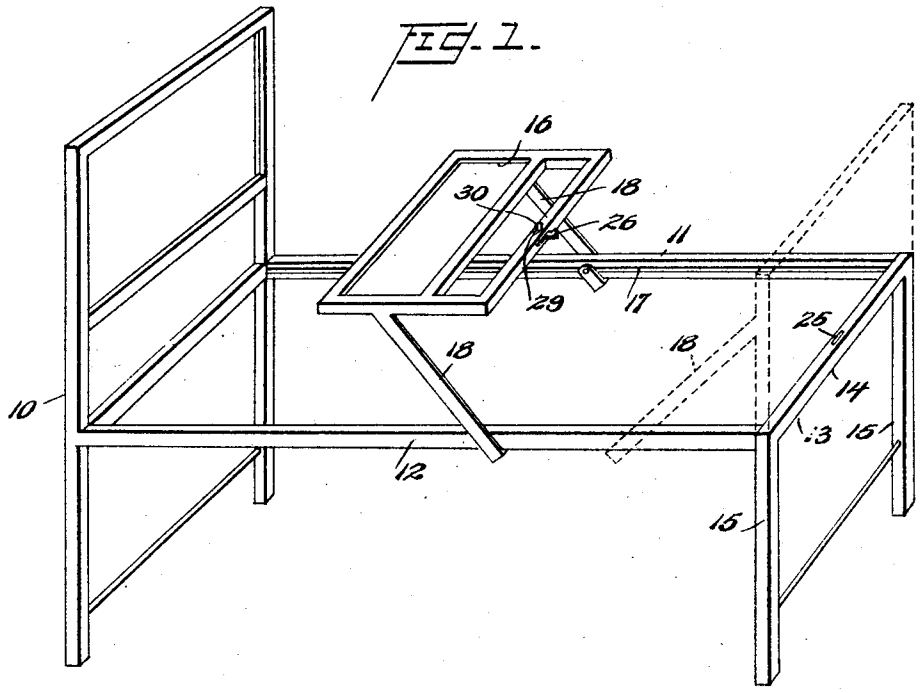


FIG. 2.

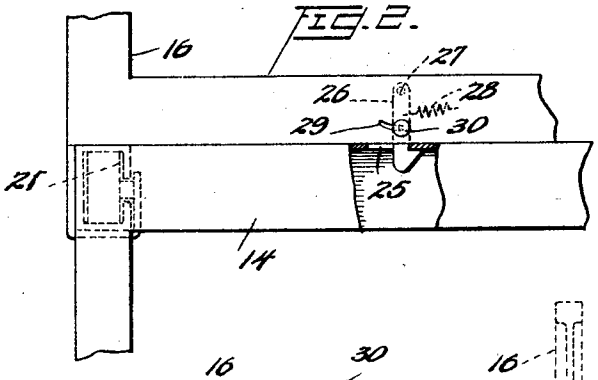


FIG. 3.

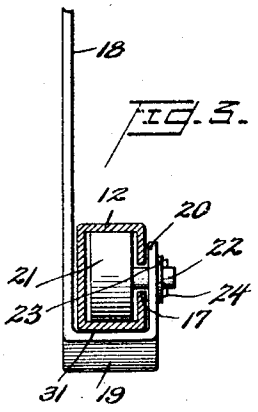
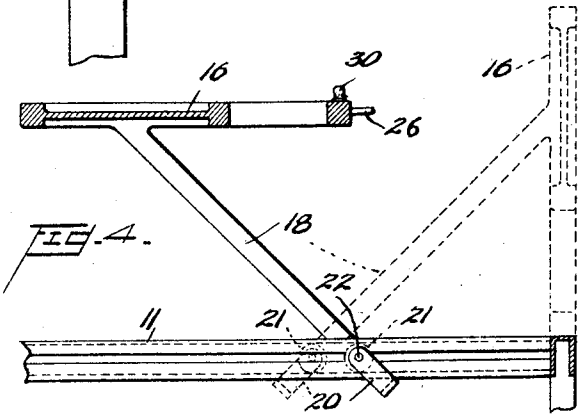


FIG. 4.



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UNITED STATES PATENT OFFICE.

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INVALID BED.

Application filed July 28, 1926. Serial No. 125,426.

This invention relates to beds and certain new and useful improvements therein. More specifically, this invention relates to a bed for invalids which is so designed and constructed that a part of the bed structure may be readily converted into a table so that the invalid occupying the bed may partake of his meals while remaining in a comfortable position in the bed.

One of the objects of the present invention is to so construct a bed of the type referred to which in its normal position and condition has the outward appearance of other beds. When desired one of the elements of the bed is converted into a table so that meals may be served to the occupant of the bed. In the specific embodiment of the present invention the upright which normally forms the foot of the bed is made detachable and means are provided for moving it in the direction of the head of the bed and placing it in such a position where it may be utilized as a table.

In the drawings Figure 1 shows the bed.

Figure 2 is a detailed showing of the means for holding the upright in its normal position.

Figure 3 is a sectional view of the bed rail showing means for moving the table from one position to another.

Figure 4 is a longitudinal sectional view of the table in its two positions.

Referring to the drawings the bed comprises a head upright 10, longitudinal bed rails 11 and 12, the end portion 13 which comprises the transverse element 14 and the legs 15 and the combination bed end and table top 16.

The bed rails 11 and 12 are C shaped in cross section as shown in Figure 3 having their longitudinal slot 17 preferably facing towards the inside of the bed. The combined table top and bed end 16 is provided with supporting arms 18 integrally attached at each side thereof. The free ends of the supporting arms 18 are provided with portions 19 bent at right angles and extending under the bed rails 11 and 12. The ends of the portions 19 are further provided with portions 20 which extend upwardly in a direction parallel to the inner face of the bed rails. The bed rails 11 and 12 carry rollers 21 having shafts 22 projecting through the slot 17. The end 20 of the supporting arm is provided with an opening through which the shaft 22 passes and which serves as a bearing for said shaft. The washer 23 and cotter pin 24 serve to hold these elements in assembled relation.

The combined bed end and table top normally occupies the dotted line position shown in Figures 1 and 4. In order to hold the bed end in this position the transverse member 14 is provided with a slot 25 and the combined bed end and table top is provided with a latch 26 pivoted at the point 27 and operated by spring 28 to hold the bed end locked in its normal position. The face of the lower portion of the combined bed end and table top is provided with a slot 29 and a knob 30 is attached to the latch 26 so that the latch may be released by manual operation.

The width of the portion 19 of the supporting arms is so designed that when the table top 16 occupies its desired horizontal position the edge 31 of the portion 19 abuts against the lower face of the bed rails 11 and 12 and thereby the table top 16 is maintained in its desired horizontal position.

It will be seen that when desired the latch 26 is released and the combined bed end and table top 16 is swung about the shafts 22 as pivots to such a position where the arms 18 occupy approximately vertical positions. It will be noted that in this position the portions 19 of the supporting arms are spaced from the lower faces of the bed rails. The table top is then moved together with the supporting arms 18 towards the front of the bed until the desired position is reached, when the table top is permitted to assume the position shown in full lines in Figure 1. In this position the edges 31 of the portions 19 will abut against the lower face of the bed rails and the table top will occupy a horizontal position and will be available for its proper use.

It will be seen that the bed shown herein constitutes a combination bed and table in which, however, only the parts that normally come in every bed are utilized. In its normal use there are no unsightly parts attached to the bed.

Having described our invention, we do not wish to be limited to this specific embodiment thereof shown in the present application. Numerous modifications of the

structure shown herein may be resorted to without departing from the spirit of our invention and of the appended claims.

We claim:

1. In a bed, a bed end, means for normally maintaining the bed end in its normal upright position, a pair of arms fixedly attached to said bed end, one at each side thereof, a pair of channel shaped bed rails, means on said arms disposed to travel in said bed rails whereby said bed end may be converted into a table top by an arcuate movement of the bed end from its vertical to a horizontal position, and means comprising integral inturned ends upon the aforesaid arms cooperating with the rails for maintaining the said bed end in horizontal position.

2. In a bed, a bed end, means for normally maintaining the bed end in its normal upright position, a pair of arms fixedly attached to said bed end, one at each side thereof, a pair of channel shaped bed rails, and rollers disposed to travel in said bed rails and pivotally mounted on said arms, whereby said bed end may be converted into a table top by an arcuate movement of the bed end from its vertical to a horizontal position, and means comprising integral inturned ends upon the aforesaid arms cooperating with the rails for maintaining the said bed end in horizontal position.

In witness whereof we hereunto affix our signatures.

JOHN E. SNYDER.
SAMUEL H. STEINBERG.