C. R. KLOK.

FOLDING BED.

APPLICATION FILED JULY 14, 1913.

1,253,391.

Patented Jan. 15, 1918.

2 SHEETS—SHEET 1.

Fig. 1.

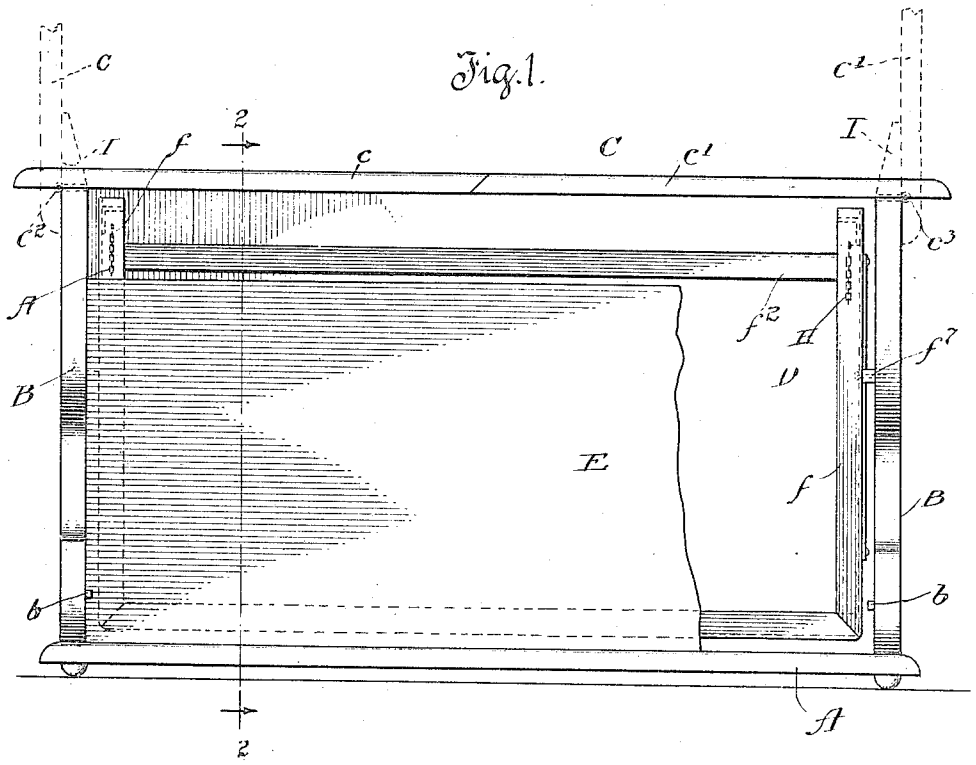
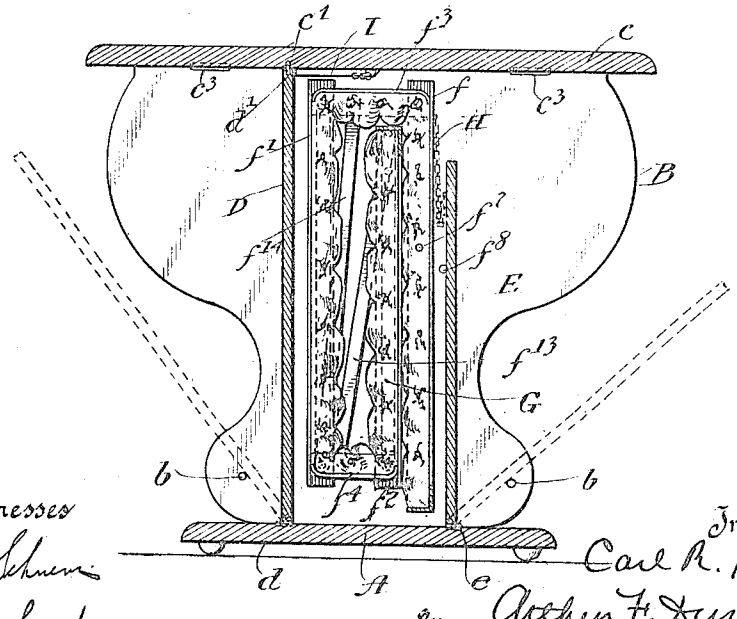


Fig. 2.



Witnesses

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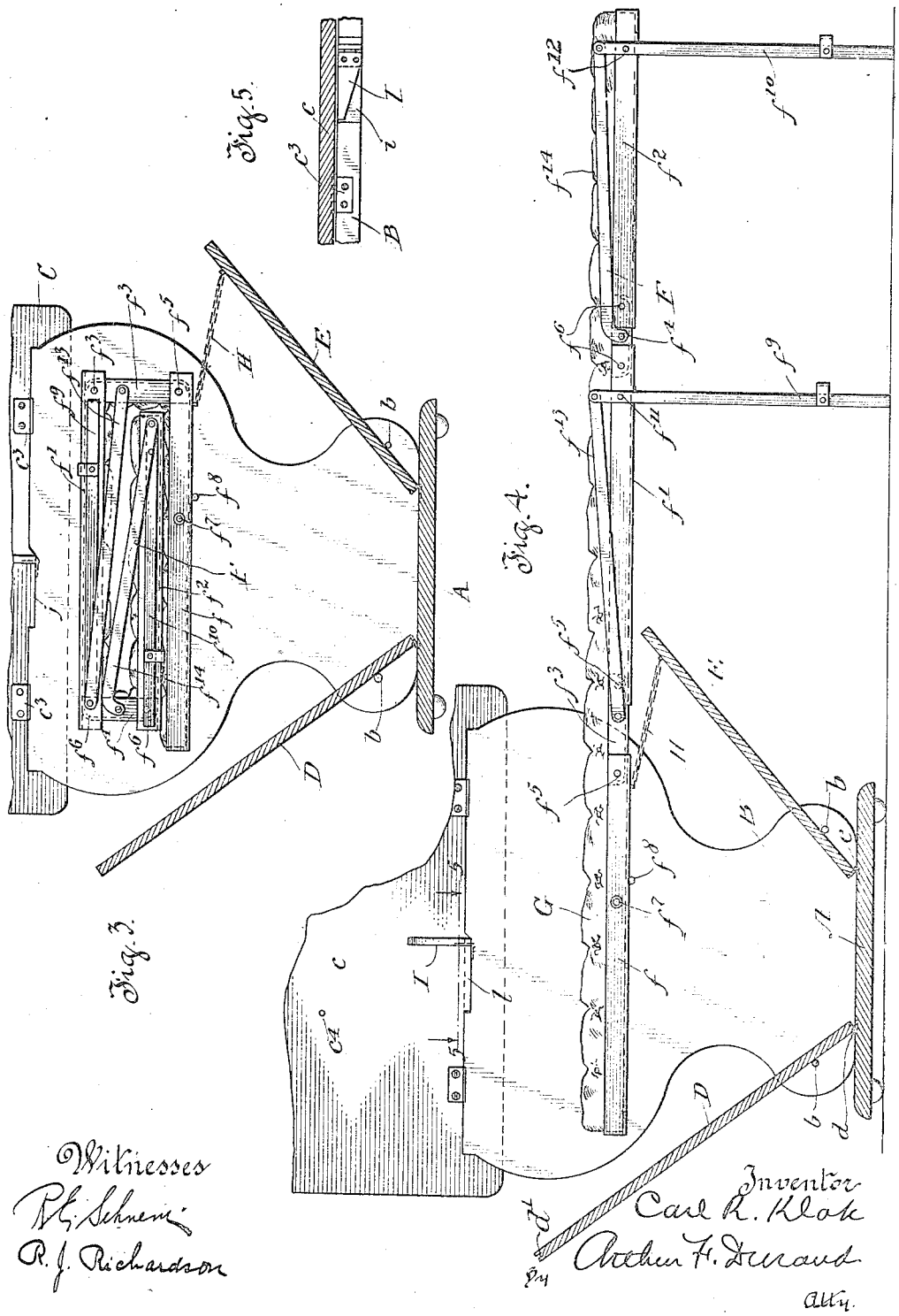
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UNITED STATES PATENT OFFICE.

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FOLDING BED.

1,253,391. Specification of Letters Patent. Patented Jan. 15, 1918.

Application filed July 14, 1913. Serial No. 778,938.

To all whom it may concern:

Be it known that I, CARL R. KLOK, a citizen of the United States of America, and resident of Chicago, Cook county, Illinois, have invented a certain new and useful Improvement in Folding Beds, of which the following is a specification.

My invention relates to folding beds of that kind in which the folding bed frame is combined with a table or other similar piece of furniture.

Generally stated, the object of my invention is to provide a novel and highly efficient table bed of this general character.

A special object is to provide an improved construction and arrangement whereby the bed may be folded into the pedestal of the table, or into a position forming a pedestal-like structure below the table top, to give the appearance of a table having a vertical and longitudinally extending pedestal or support, when the bed is folded, and whereby, for this or some similar purpose, the flat bundle into which the bed frame folds is disposed vertically below the table top, preferably between the two sides thereof, thus affording ample clearance below the top at each side of the table.

It is also an object to provide certain details and features of improvement and combinations tending to increase the general efficiency of a table bed of this particular character.

To the foregoing and other useful ends my invention consists in matters hereinafter set forth and claimed.

In the accompanying drawings—

Figure 1 is a side elevation of a table bed embodying the principles of my invention, showing a portion of the pedestal wall broken away to bring into view one end of the rectangular bundle formed by folding or rolling up the bed frame.

Fig. 2, is a transverse section on line 2—2 in Fig. 1.

Fig. 3 is a similar section, but showing the bed rotated into position for unfolding.

Fig. 4 is a similar view showing the bed unfolded.

Fig. 5 is an enlarged detail section on line 5—5 in Fig. 4.

As thus illustrated, my invention comprises a table having a base A, end walls B, and a top C composed of sections c and c^1 hinged at c^2 and c^3 to the top of said end walls. The pedestal effect is produced by the vertical walls D and E which are pivoted at d and e to the base of the table. Preferably, the table top sections are provided with pins c^4 which engage sockets d^1 in the upper edge of the wall D, whereby the table top is supported and the said wall held in position. Stop pins b on the end walls B limit the outward swing of the walls D and E, when the bed is unfolded.

For the broader purpose of my invention, the folding bed F may be of any suitable, known or approved construction. As shown, it comprises an angle iron frame comprised of sections f, f^1 and f^2, the end sections f and f^2 being U-shaped in character, and the middle section f^1 being composed of two straight parallel strips of angle iron. The sections f and f^1 are connected by links f^3, one at each side of the bed, and the sections f^1 and f^2 are connected by similar links f^4, the ends of said links overlapping the angle iron sections. These links are provided respectively with pivots f^5 and f^6, by which the links and sections are pivotally connected together, and in this way the bed frame is adapted to be folded or rolled up into a flat bundle, as shown in Figs. 2 and 3. As the links f^4 are shorter than the links f^3, it follows that sufficient space exists between the sections to permit the mattress G, and other bedding, to be folded up therewith. This mattress, of course, is supported by a fabric (not shown) stretched on the frame. As the links f^3 and f^4 overlap the sections, in the manner shown and described, the frame cannot unfold beyond a straight line—that is to say, cannot flex in a downward direction but is adapted to fold upwardly. When folded the section f^2 is between the sections f and f^1, in the manner shown.

In order to permit the bundle forming the folded bed to be rotated into position to unfold, the section f is supported by pivots f^7 on the end walls B, whereby the entire bed can be given a quarter rotation about a horizontal axis extending longitudinally of the table to bring the bed into the position shown in Fig. 3. In this position the bed is held against further rotation by the stops f^8 on the table end walls. The bed frame is provided with pivoted legs f^9 and f^{10}, the legs f^9 being pivoted to the section f^1 at f^{11}, and the legs f^{10} being pivoted to the section f^2 at f^{12}. Links f^{13} are pivoted at one end to

the upper ends of the legs f^9, and at their other ends to the links f^3; and similar links f^{14} pivotally connect the legs f^{10} with the links f^4. With this arrangement, the legs f^9 and f^{10} fold automatically against the sides of the bed frame, when the latter is folded, as shown in Figs. 2 and 3. The said legs then automatically assume the position shown in Fig. 4, when the bed is unfolded, whereby the bed frame is supported in its extended position.

Thus the bed and the walls D and E combine to form the pedestal-like structure at the center of the table. The table top overhangs the pedestal at each side of the table, providing clearance for the knees, whereby the table may be used as an ordinary library table. The height of the table is suitable for this purpose, as the width of the bundle forming the folded bed is such that the table is of standard height. Also, the bed is of standard height when unfolded. The wall E is connected to the bed by a chain H or other connection, whereby the folding of the bed serves automatically to bring the said wall into upright position. Thus the bed is concealed when folded, and the pedestal thus formed is not thick enough to appear unusual. In other words, the structure might well pass for an ordinary library or office table.

The top sections c and c^1 are held in raised position by pivoted members I, as shown in Fig. 1. These are hinged on the upper ends of the walls B, and when raised hold the top sections vertical. But when the top is down, then the members I rest in the recesses i in the said end walls.

It will be seen that the member E is a swinging housing section operatively connected with the bed frame, so that this section of the bed frame swings automatically into the desired positions when the bed is folded. The member D is also a swinging housing section, but this one has no operative connection with the bed frame. In this way, it will be seen, a simple and improved arrangement is provided for combining a table with a bed, in a manner that results not only in a bed which can be of standard height and width and length, but also a table which can be of standard or ordinary height and width and length, such as those that are ordinarily and commonly used in libraries or for other similar purposes. The invention, however, is not limited to the exact construction shown and described.

What I claim as my invention is:

1. A table bed comprising a table provided with a pedestal, and a foldable bed frame associated with the pedestal, said pedestal having a pivoted closure member operated by folding movement of said frame, and a connection between said frame and member, whereby said frame pulls said member into closed position.

2. In a table bed, a furniture body, a transversely folding bed-frame comprising a head-section, a middle-section, a foot-section, means whereby said foot-section is foldable upside-down with a mattress onto the middle-section and whereby the two sections are then foldable onto the head-section, preliminary to inclosing the frame in said body, movable housing means operatively connected to said bed-frame, and pivots on said body to permit rotation of the folded frame from a horizontal into an upstanding position with the foot-end of the frame at the top and the head-end at the bottom.

3. In a table bed, a furniture body, a transversely folding bed-frame comprising a head-section, a middle-section, a foot-section, means whereby said foot-section is foldable upside-down with a mattress onto the middle-section and the two sections are then foldable onto the head-section, preliminary to inclosing the frame in said body, pivots on said body to permit rotation of the folded frame from a horizontal into an upstanding position with the foot-end of the frame at the top and the head-end at the bottom, a housing for said frame in said body, said housing having a downwardly swinging section, and an operative connection between said housing and said frame.

4. In a table bed, a furniture body, a transversely folding bed-frame comprising a head-section, a middle-section, a foot-section, means whereby said foot-section is foldable upside-down with a mattress onto the middle-section and the two sections are then foldable onto the head-section, preliminary to inclosing the frame in said body, pivots on said body to permit rotation of the folded frame from a horizontal into an upstanding position with the foot-end of the frame at the top and the head-end at the bottom, a swinging housing-section in said body, and an operative connection between said housing-section and said head-section of the frame.

5. In a table bed, a furniture body, a transversely folding bed-frame comprising a head-section, a middle-section, a foot-section, means whereby said foot-section is foldable upside-down with a mattress onto the middle-section and the two sections are then foldable onto the head-section, preliminary to inclosing the frame in said body, pivots on said body to permit rotation of the folded frame from a horizontal into an upstanding position with the foot-end of the frame at the top and the head-end at the bottom, said body having a movable table-top which covers the folded frame and overhangs the same a distance to give knee-clearance at opposite sides thereof when the body is in use as a table, and two movable members be-

tween which said frame is inclosed when folded.

6. A table provided with a central pedestal, a top extending over and outward from the pedestal at opposite sides thereof, to overhang both sides of the pedestal, a transversely folding bed-frame, pivotally mounted housing means operatively connected with said frame, and means to pivotally support said bed-frame in folded condition with the head and foot sections thereof upright within said pedestal.

Signed by me at Chicago, Illinois, this 9th day of July, 1913.

CARL R. KLOK.

Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."