F. S. INCO.

CONCEALABLE BED.

APPLICATION FILED APR. 6, 1921.

1,408,510. **Patented Mar. 7, 1922.**

2 SHEETS—SHEET 1.

Fig. 1.

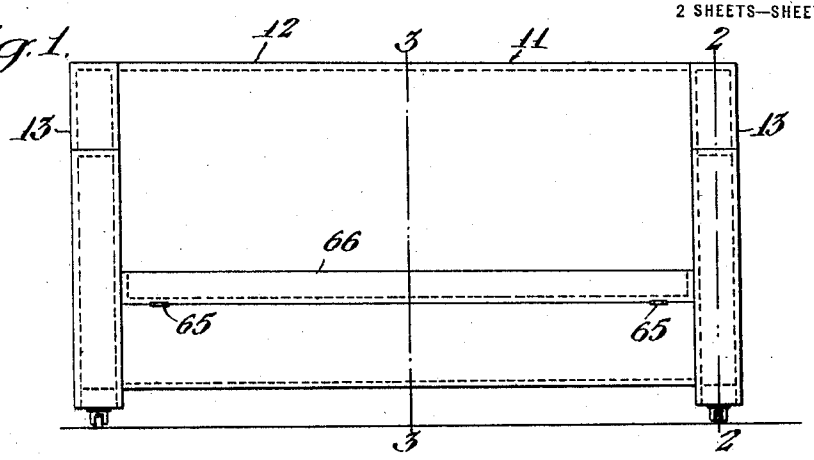


Fig. 2.

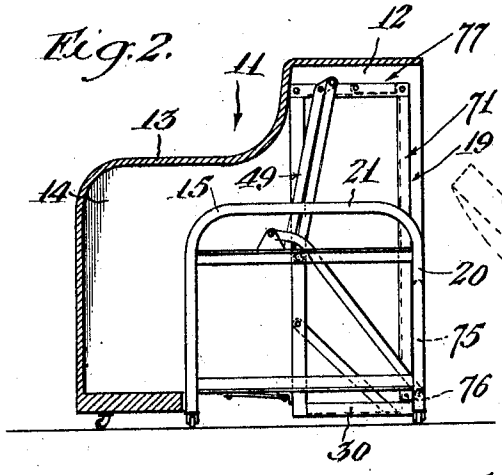


Fig. 3.

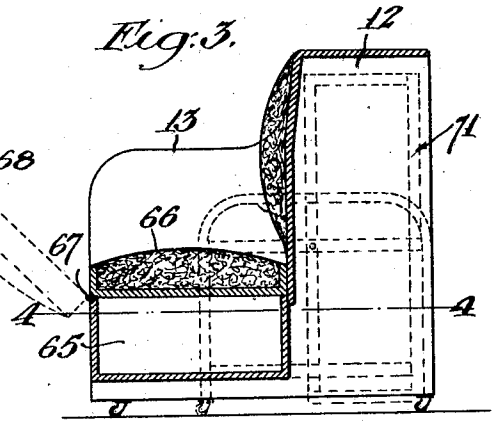
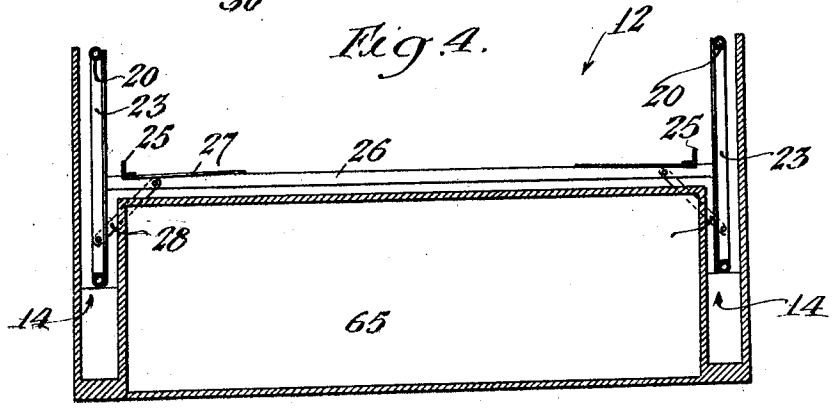


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 5.

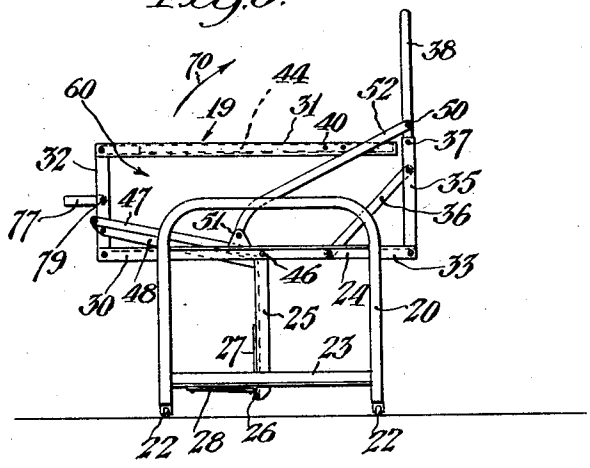


Fig. 6.

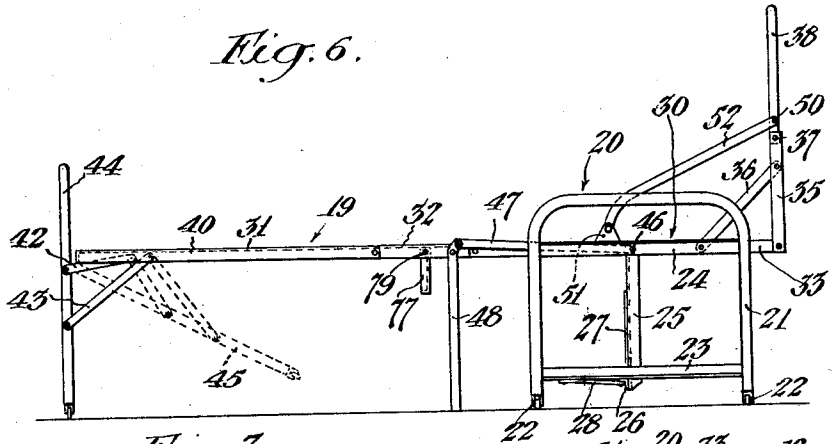
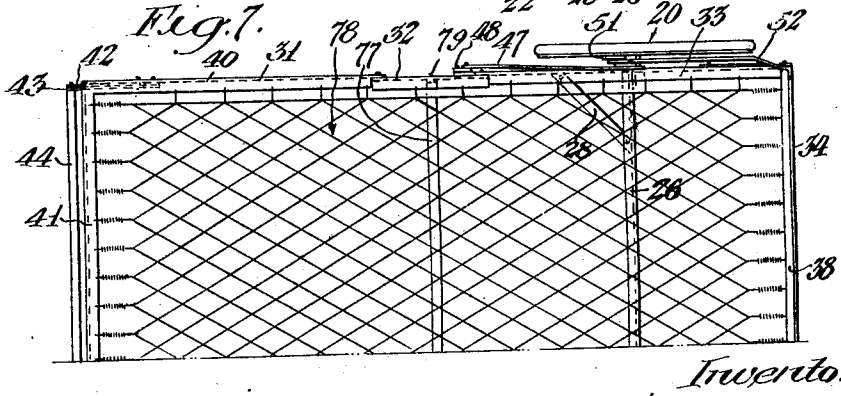


Fig. 7.



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UNITED STATES PATENT OFFICE.

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CONCEALABLE BED.

1,408,510. Specification of Letters Patent. Patented Mar. 7, 1922.

Application filed April 6, 1921. Serial No. 458,885.

To all whom it may concern:

Be it known that I, FRANCIS S. INCO, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Concealable Bed, of which the following is a specification.

This invention relates to the manufacture of beds which are adapted to be folded and concealed when not desired for use, and particularly relates to the design of concealable beds suitable for use in rooms in which there has not been provided built in means of concealment.

It is an object of this invention to provide a folding bed which may be incorporated as a part of an article of furniture which will have a certain utility of its own and which will furnish a concealing means for the folded bed and may be easily moved to allow the bed to be unfolded and prepared for sleeping purposes.

It is a further object of my invention to provide a bed which will fold into a minimum of space in order that the enclosing article of furniture may be of a reasonable size and shape, and also to provide for the concealment of articles of bedding when the bed is folded.

Other objects will be made evident in the following description and the accompanying drawings.

With reference to the drawings which are for illustrative purposes only:

Fig. 1 is a front elevation of an article of furniture adapted to inclose a folding bed embodying my invention.

Fig. 2 is a cross section taken on a plane represented by the line 2—2 of Fig. 1.

Fig. 3 is a cross section taken on a plane represented by the line 3—3 of Fig. 1.

Fig. 4 is a longitudinal section taken on a plane represented by the line 4—4 of Fig. 3.

Fig. 5 is an end view of the bed in the first stage of being unfolded from its position when in concealment.

Fig. 6 is a side view of the bed entirely unfolded.

Fig. 7 is a partial plan view of the bed when unfolded.

An article of furniture particularly adapted to the concealment of such a folding bed as I provide is a davenport 11 which is constructed to provide a compartment 12 in the back thereof, and having arms 13 of a hollow wall construction to provide compartments 14 to receive the forward portion 15 of the supporting frames 21. The folding bed 19 which I employ is supported upon a carriage 20 formed of supporting members 21, preferably of metal tubing bent to the desired shape, and in which supporting members are placed castors 22 to provide for moving the bed about. Across the supporting members 21 are placed lower cross-bars 23 and upper cross-bars 24 which are reinforced by vertical bars 25, and the carriage is completed by a lateral member 26 which connects between the points of juncture of the cross-bars 23 and the vertical members 25 and is suitably reinforced by diagonal braces 27 and 28.

The bed 19 is comprised of a head section 30 and a foot section 31 joined together by link members 32. The head section 30 is composed of longitudinal members 33 connected at the head thereof by a cross-bar 34, and vertically mounted at the head are upright angles 35 reinforced by diagonal bars 36.

Pivotally mounted at 37 on the upright angles 35 is a head frame 38.

The foot section 31 is composed of longitudinal members 40 connected at the foot thereof by a cross-bar 41, and joined to the longitudinal members 40 by links 42 and 43 is a foot frame 44 which may be swung, when it is desired to fold the bed, through the position indicated at 45 in Fig. 6 into a position underneath the frame section 31.

The head section 30 is supported by the carriage 20 and is pivoted at 46 thereto, and extending from the points of pivot 46 are links 47 which control the position of legs 48 mounted on the link members 32. When the bed is in extended position as shown in Fig. 6, the legs 48 extend vertically and support the central portion of the bed. Upon folding up the foot section 31, as shown in Fig. 5, the action of the link 47 brings the legs into a retracted position 49.

Connecting between points 50 on the head frame 38 and lugs 51 mounted on the cross-bar 24 of the carriage are links 52 which control the position of the head frame and provide for its retention in a vertical position.

It will be noticed when the foot section of the bed is folded, as shown in Fig. 5, that a space 60 in which the mattress of the bed may be retained, is enclosed by the members forming the bed. Also a compart-

ment 65 is provided in the davenport 11 for the other articles of bedding, the seat 66 of the davenport being hinged 67 so that it may be swung back as indicated by the dotted lines 68 to provide ease of access to the compartment 65.

From the position shown in Fig. 5, the bed 19 may be swung back around the pivot 46, as indicated by the arrow 70, and assumes a position as indicated at 71 in Figs. 2 and 3. The bed in this position may then be concealed by the davenport 11 and will occupy the compartment 12 thereof and the forward portion 15 of the frames 21 will be contained within the compartments 14 provided therefor. Also the head frame 38 will have assumed a position as indicated at 75 and the end portion 76 of the foot section will be enclosed by the head frame 38, thereby being prevented from swinging out and allowing the mattress to slide from the space 60 provided for same.

A cross bracing member 77 to reinforce between the link members 32 is shaped to provide a clearance beneath the spring 78 of the bed, and is pivotally mounted at 79 on the link members so that it may be swung back into the confines of the link members, when the bed is folded, as shown in Fig. 2.

I claim as my invention:

1. In a concealable bed, the combination of: a davenport; arms formed on either end of said davenport, a cavity being provided in the back of said davenport extending into said arms; and a bed of such size that it may be concealed in said cavity.

2. In a concealable bed, the combination of a davenport; arms on either end of said davenport, a cavity being provided in the back of said davenport extending into said arms; a wheeled structure fitting inside said cavity; and a folding bed carried by said structure.

3. In a concealable bed, the combination of a davenport; arms on either end of said davenport, a cavity being provided in the back of said davenport extending into said arms; a wheeled structure fitting inside said cavity; a jointed bed carried by said structure and adapted to be folded to enclose the mattress and bed clothes; retractile legs carried by said bed; and means for so mounting said bed on said structure that it may be swung on edge to enter said cavity.

4. In a concealable bed, the combination of a davenport; arms on either end of said davenport, a cavity being provided in the back of said davenport; a wheeled structure fitting inside said cavity; and a folding bed carried by said structure.

5. In a concealable bed, the combination of a davenport; arms on either end of said davenport, a cavity being provided in the back of said davenport; a wheeled structure fitting inside said cavity; a jointed bed carried by said structure and adapted to be folded to enclose the mattress and bed clothes; retractile legs carried by said bed; and means for so mounting said bed on said structure that it may be swung on edge to enter said cavity.

In testimony whereof, I have hereunto set my hand at Los Angeles, California, this 31st day of March, 1921.

FRANCIS S. INCO.