M. COX.

FOLDING BED.

APPLICATION FILED OCT. 20, 1916.

1,255,710.

Patented Feb. 5, 1918.

2 SHEETS—SHEET 1.

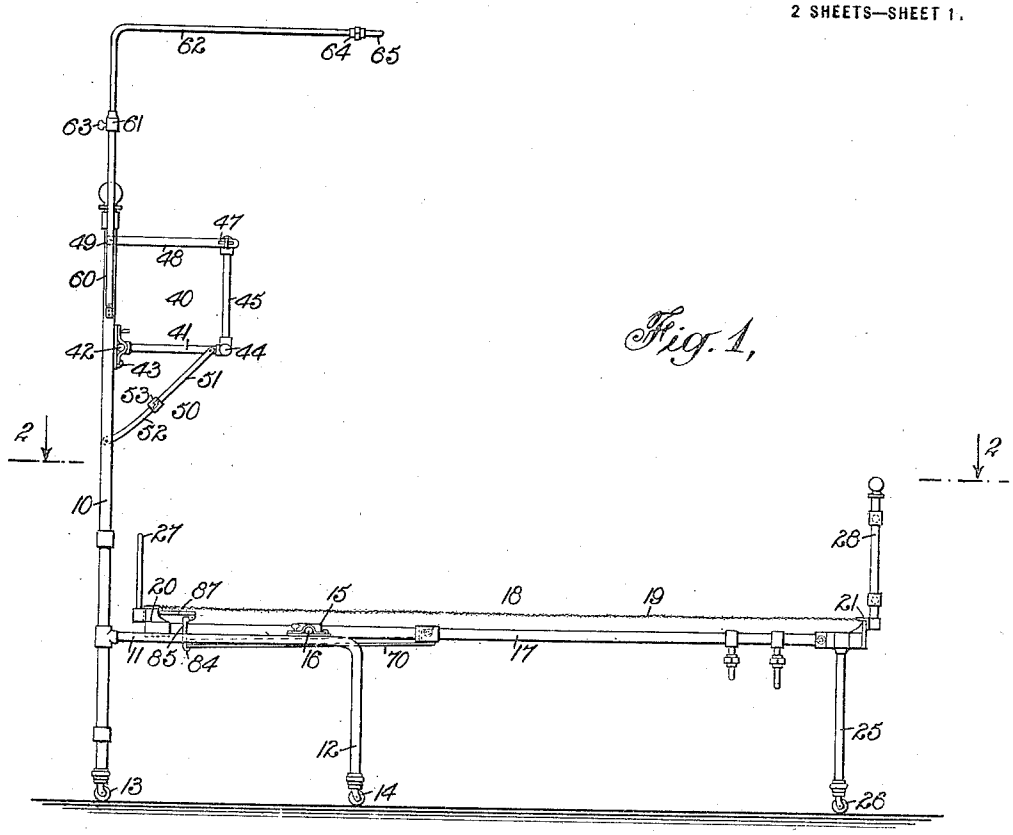


Fig. 1.

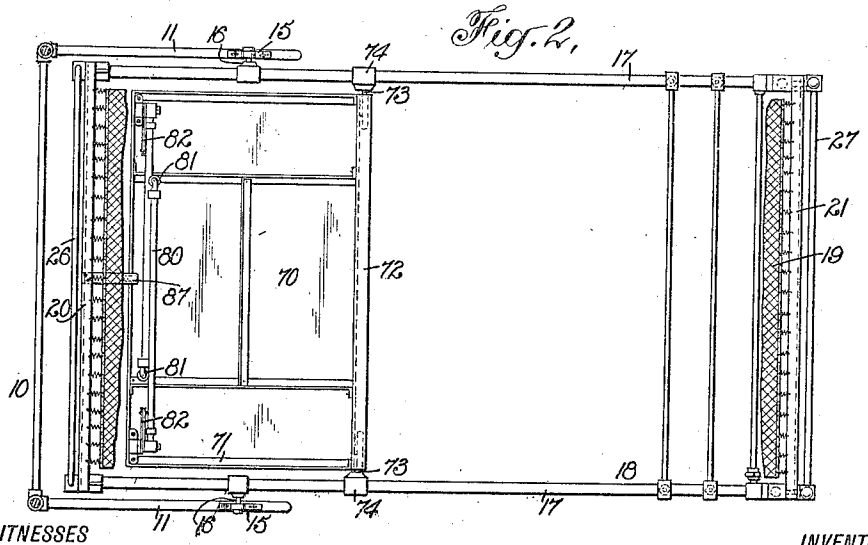


Fig. 2.

WITNESSES

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2 SHEETS—SHEET 2.

Fig. 3,

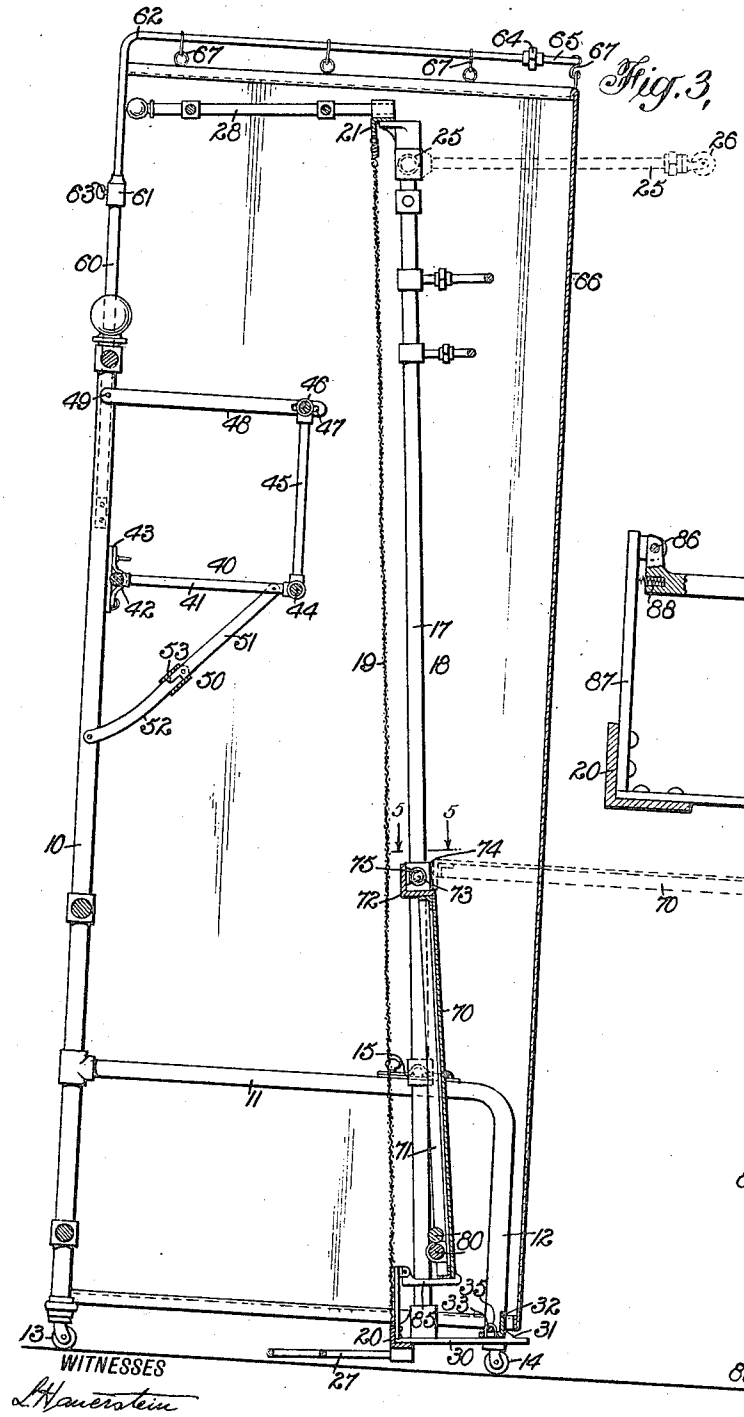


Fig. 5,

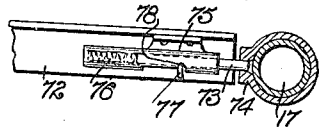


Fig. 6

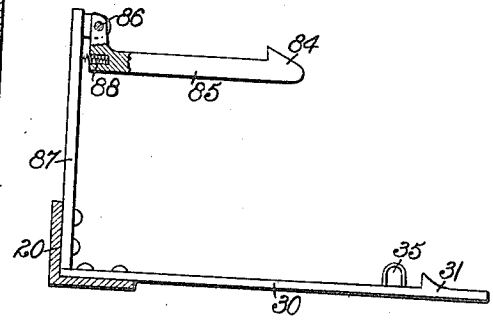
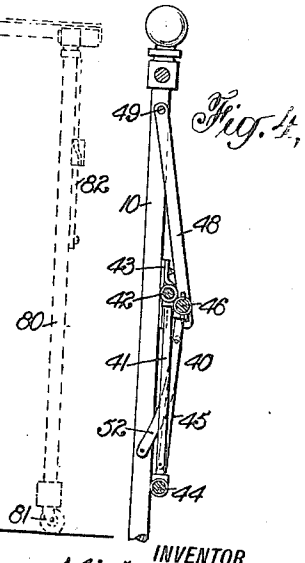


Fig. 4,



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FOLDING BED.

1,255,710. Specification of Letters Patent. Patented Feb. 5, 1918.

Application filed October 20, 1916. Serial No. 126,693.

To all whom it may concern:

Be it known that I, MICHAEL COX, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Folding Bed, of which the following is a full, clear, and exact description.

The invention relates to folding beds, such as shown and described in the application for Letters Patent of the United States, Serial No. 66,082, filed by me on December 10, 1915.

The object of the present invention is to provide a new and improved folding bed arranged to provide a foldable rack adapted to hold pillows or other bedclothes or other articles, as suits the convenience of the user. Another object is to provide a table normally held in inactive position on the bed spring frame when the bed is in use, and adapted to be extended when the bed spring frame is in upright folded position.

In order to accomplish the desired result, use is made of a rack extending across the front of the head of the head stand and arranged within the space extending between the head and the bed frame at the time the latter is in upright folded position. Use is also made of a table pivotally connected at one end with the bed spring frame and provided at its other end with foldable legs adapted to rest on the floor at the time the bed spring frame is in upright folded position and the table extends horizontally.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the folding bed in extended position;

Fig. 2 is a sectional plan view of the same on the line 2—2 of Fig. 1;

Fig. 3 is an enlarged sectional side elevation of the folding bed in folded position;

Fig. 4 is a similar view of the rack in folded position;

Fig. 5 is an enlarged cross section of one of the side rails of the bed spring frame and its pivotal connection with the table, the section being on the line 5—5 of Fig. 3; and

Fig. 6 is an enlarged sectional side elevation of one end of the bed spring frame and the locking devices, of which one is used for locking the bed spring frame in upright position, and the other is used for holding the table in folded position on the bed spring frame.

The head 10 of the folding bed is preferably made of tubes connected with each other to form a skeleton frame, and the said head 10 is provided with side arms 11 terminating in legs 12, which latter with the side arms 11, and the head 10 form a head stand preferably provided with casters 13 and 14 at the head 10 and the legs 12 to allow of moving the bed conveniently about from one place to another. The side arms 11 and the head stand are provided with bearings 15 in which are journaled transversely extending trunnions 16 attached to the side rails 17 of the bed spring frame 18 provided with the usual bed spring 19 of woven wire or the like, the ends of the bed spring 19 being attached to the head and foot crossbars 20 and 21 connecting the side rails 17 with each other and forming part of the bed spring frame 18.

On the foot ends of the side rails 17 of the bed spring frame 18 are fulcrumed legs 25 adapted to swing in a transverse direction to fold under the bed spring frame 18 at the time the latter is in folded position, as indicated in Fig. 3. Ordinary locking means (not shown) hold the legs 25 in extended position. The lower ends of the legs 25 are provided with casters 26 adapted to rest on the floor the same as the casters 13 and 14 at the time the bed is in extended position. The bed spring frame 18 is provided at the head cross-bar 20 with a head rail 27 and a foot guard rail 28 is attached to the foot crossbar 21.

In order to hold the bed spring frame 18 in upright folded position, use is made of a spring catch 30 attached to the head crossbar 20 and provided at its free end with a head 31 adapted to snap under a crossbar 32 connecting the legs 12 of the head stand with each other. A bolt 33 is mounted to slide transversely on the crossbar 32 and is adapted to engage a keeper 35, preferably in the form of a staple attached to the spring catch 30, as plainly shown in Fig. 6. It is understood that when the bed spring frame 18 is swung into upright position the head 31 of the spring catch 30 snaps under the crossbar 32 and is locked thereto by the

operator pushing the bolt 33 into engagement with the keeper 35.

The head 10 is provided at its front at a distance above the side arms 11 with a rack 40, preferably made of tubes forming a shelf 41 provided at the rear with a crossbar 42 journaled in bearings 43 attached to the head 10 and adapted to be opened to permit the convenient removal of the crossbar 42 from the bearing whenever it is desired to remove the shelf from the head 10. On the outer crossbar 44 of the shelf 41 are pivoted uprights 45 connected with each other by a crossbar 46 extending into elongated slots 47 formed on links 48 pivotally connected to the head 10. Braces 50 connect the shelf 41 with the head 10 to support the shelf in a horizontal position, each of the braces 50 being preferably made in two sections 51 and 52 pivotally connected with each other and adapted to be locked in extended position by a sleeve 53. The links 48 and the braces 50 are detachably connected with the head 10 so that the entire rack can be removed from the head 10 and used at some other support, if desired. The rack can be folded against the head 10 by simply collapsing the sectional braces 50 on sliding the sleeve 53 out of engagement with the pivotal connections of the sections 51 and 52. The shelf 41 can then readily swing downward into folded position thereby carrying the uprights 45 and the links 48 along into folded position, as plainly indicated in Fig. 4.

The head 10 is provided with a curtain support having side arms 60 attached to the head 10 and extending above the same, and the upper ends of the side arms 60 are engaged by sockets 61 formed on L-shaped side arms 62 adapted to be fastened in place by set screws 63 screwing in the sockets 61 against the side arms 60. The outer ends of the horizontal members of the side arms 62 are connected by union couplings 64 with a U-shaped rod 65 which latter and the side arms 62 serve to support a curtain 66 by the use of the usual hooks 67 or similar devices engaging the rod 65 and the side arms 62. The curtains 66 are preferably two in number joined at the middle of the front of the bed so as to completely inclose the same at the time the bed spring frame 18 is in upright folded position, as plainly shown in Fig. 3. The curtains 66 are readily swung to one side whenever it is desired to swing the bed spring frame 18 down into horizontal position for use in the usual manner.

On the under side of the bed spring frame 18 is arranged a table 70 provided at the under side with a reinforcing frame 71 and provided at one end with an angle iron cross-bar 72 provided at its ends with trunnions 73 adapted to engage bearings 74 attached to the side rails 17 of the bed spring frame 18. The trunnions 73 are preferably in the form of bolts mounted to slide in bearings 75 (see Fig. 5) attached to the crossbar 72 and each trunnion is pressed on by a spring 76 and is provided with a handle 77 adapted to engage a notch 78 formed in the bearing 75 to hold the trunnion 73 in extended position, that is, in engagement with the bearing 74. When it is desired to remove the table from the bed spring frame 18 the trunnions 73 are moved inward toward each other to disengage the bearings 74 and thus allow detachment of the table. The table 70 is provided at the end opposite the trunnions 73 with legs 80 adapted to be swung into vertical position at the time the table 70 is in horizontal position, as indicated in dotted lines in Fig. 3. The legs 80 are provided with casters 81 adapted to rest on the floor the same as the casters 13 and 14 to support the table 70 in horizontal position, it being understood that the bearings 74 are so located relative to the bearings 15 that the table 70 when extended is supported in horizontal position at the time the bed spring frame 18 is in upright folded position. Sectional braces 82 connect the table with the legs 80 to hold the latter firmly in extended position.

The table 70 when in folded position is held therein by the head 84 of a catch 85 engaging the free end of the table 70, the same catch 85 being fulcrumed at 86 on a bar 87 attached to the crossbar 20 of the bed spring frame 18. The spring 88 presses the catch 85 to readily engage the head 84 thereof with the table 70 when the latter is swung into folded position. It will be noticed that the table 70 is completely out of the way at the time the bed spring frame 18 is in extended position and the bed is used for sleeping purposes, but when the bed spring frame 18 is in upright folded position then the table 70 can be readily disengaged from the spring catch 85 and swung into horizontal position with the legs 80 extended to rest on the floor for the purpose previously mentioned. The table 70 can now be used for various purposes as it practically extends completely free of the bed and is accessible from three sides.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. In a folding bed, a head stand having side arms, a bed spring frame pivoted on the said side arms, a table provided at one end with retractable trunnions, and bearings held on the side rails of the said bed spring frame and adapted to be engaged by the said trunnions.

2. In a folding bed, a head stand having

side arms, a bed spring frame pivoted on the said side arms, a table provided at one end with retractable trunnions, bearings held on the side rails of the said bed spring frame and adapted to be engaged by the said trunnions, foldable legs pivoted on the other end of the table and adapted to rest on the floor at the time the bed spring frame is in upright folded position and the table extends horizontally, and a catch on the bed spring frame adapted to engage the free end of the table to lock the latter in folded position.

MICHAEL COX.

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