

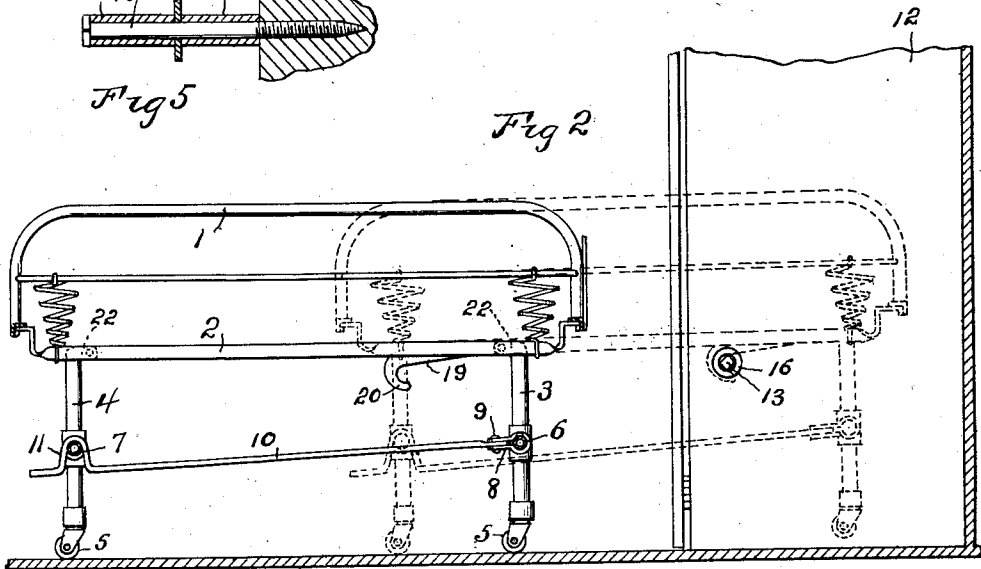
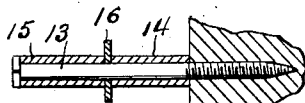
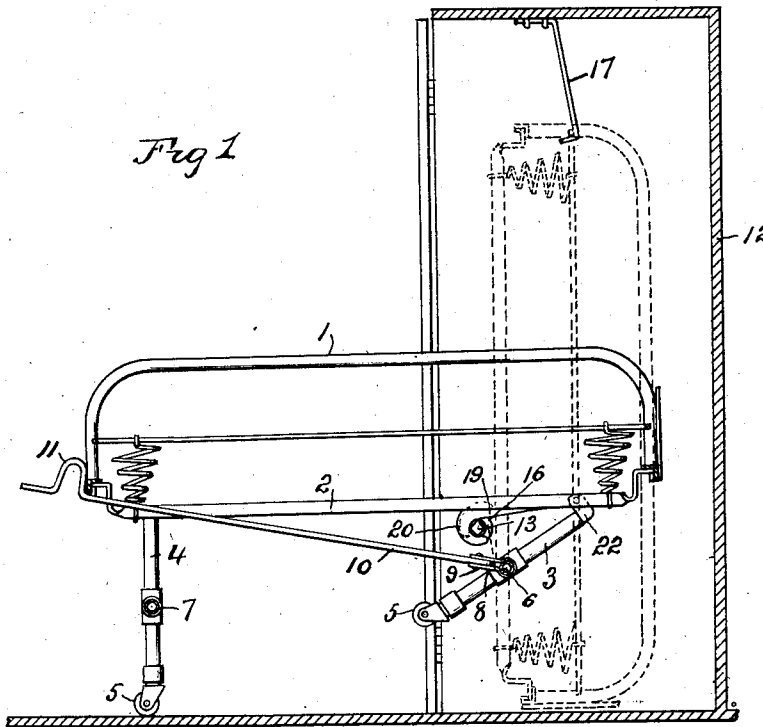
C. R. BRUCE.
DISAPPEARING BED.

APPLICATION FILED DEC. 18, 1911.

Patented Sept. 10, 1912.

2 SHEETS—SHEET 1.

1,037,858.



WITNESSES:

R. Hamilton
E. B. House

INVENTOR.
Charles R. Bruce
BY
Warren R. House
ATTORNEY.

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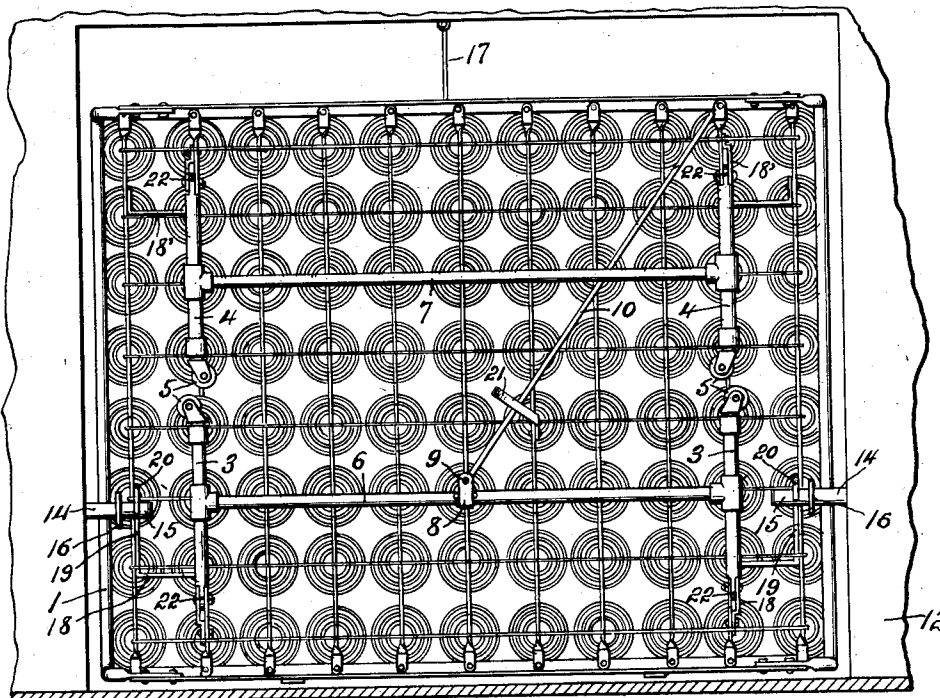


Fig 3

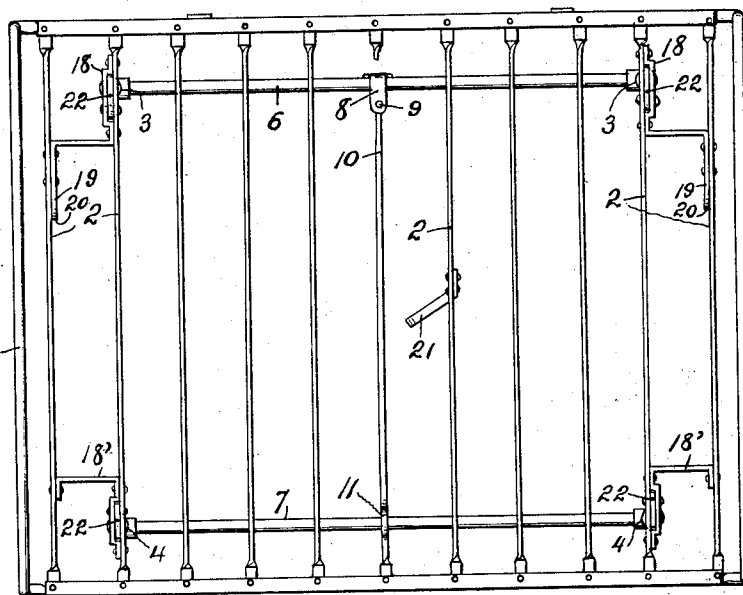


Fig 4

WITNESSES:

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INVENTOR.
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BY
Warren D. House
His ATTORNEY.

UNITED STATES PATENT OFFICE.

CHARLES R. BRUCE, OF KANSAS CITY, MISSOURI.

DISAPPEARING BED.

1,037,858.

Specification of Letters Patent.

Patented Sept. 10, 1912.

Application filed December 18, 1911. Serial No. 666,439.

To all whom it may concern:

Be it known that I, CHARLES R. BRUCE, a citizen of the United States, residing in Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Disappearing Beds, of which the following is a specification.

My invention relates to improvements in disappearing beds.

The object of my invention is to provide a folding bed which may be easily and quickly stored in compact form in a suitable cabinet or closet provided for the purpose.

My improved bed is of the type which may be rolled out on the floor for use, after which it may be rolled into the cabinet or closet and there swung upon, pivots provided for the purpose, to an upright position.

One object of my invention is to provide a structure in which the inner set of legs may be easily swung from the vertical position, after the bed has been run into the cabinet or closet, so that the said set of legs will not interfere with the free swinging of the bed upon the cabinet pivots.

Another object of my invention is to provide a novel means for bracing the two sets of pivoted legs with which the bed frame is provided, the brace also serving as a means for easily swinging inwardly the inner set of legs, by a person standing at the outer side of the bed.

Other novel features are hereinafter fully described and claimed.

In the accompanying drawings illustrative of my invention in the preferred embodiment thereof, Figure 1 is a vertical sectional view showing the bed supported on the pivots in the cabinet, the bed being shown in solid lines in the horizontal position with the inner set of legs swung inwardly from the vertical position. In this view the bed is shown in dotted lines in the vertical position. Fig. 2 is a vertical sectional view in which the bed is shown in solid lines withdrawn from the cabinet. It is shown in dotted lines mounted in the horizontal position on the pivots. Fig. 3 is a front elevation showing the bed in the vertical position in the cabinet. Fig. 4 is a plan view of the bed, the springs being omitted.

Fig. 5 is an enlarged longitudinal sectional view of one of the pivots and a portion of the adjacent wall.

Similar reference characters designate similar parts in the different views.

1 designates an ordinary iron bed frame having transverse bars 2 to which are pivoted the upper ends of two sets of legs 3 and 4, the legs 3 being at what I will term the inner side of the bed, and the legs 4 at the outer side of the bed.

The legs may be provided with the usual casters 5. The legs 3 are provided with a transverse bar 6. The legs 4 are provided with a similar transverse bar 7.

A brace is connected at one end to the bar 6 and has means for releasably engaging the other bar 7 for holding the legs in the vertical position. Preferably the brace comprises a clip 8 pivoted to the bar 6 so as to swing vertically and having pivoted to it by a vertical pin 9 one end of a lever 10, which near its outer end has a U shaped catch 11 for releasably engaging the bar 7.

12 is a cabinet or closet the inner, opposite walls of which are provided with horizontal pivots upon which the bed may be swung to and from a vertical position.

Each pivot preferably comprises a lag screw 13 secured to the cabinet wall and having mounted on it two tubes 14 and 15, the outer one of which is rotative on the screw. Between the tubes 14 and 15 is a washer 16 of greater diameter than the tubes, and which serves to prevent too much lateral movement of the bed on the pivots.

A catch 17 is secured to the ceiling of the cabinet 12, and is adapted to releasably engage the bed to hold it in the vertical position in the cabinet.

Secured to two of the bars 2 of the bed frame are two brackets 18 which have inwardly and downwardly inclined extensions 19 each of which at its inner lower end terminates in a hook 20. The extensions 19 serve as tracks which are adapted to run upon the tubes 15 so as to lift the inner side of the bed to permit the inner legs 3 being swung from the vertical position.

In operating my invention, the bed is pushed from the position shown in solid lines in Fig. 2 to the position shown in dotted lines in said figure, the tracks 19 being

run upon the tubes 15 until the hooks 20 engage the tubes 15. At this time the inner legs 3 will be lifted from the floor. The brace lever 10 is upwardly swung so as to release the catch 11 from the bar 7. The lever 10 is then drawn forwardly, the person operating it standing at the outer side of the bed, until the parts assume the position shown in solid lines in Fig. 1. The bed may then be swung on the pivots to the vertical position shown in Fig. 3 and in dotted lines in Fig. 1. At this time the catch 17 is caused to engage the bed to hold it from swinging rearwardly past the vertical.

Secured to one of the bars 2 is a catch bar 21 behind which is swung the lever 10, after the bed has been swung to the position shown in Fig. 3, and the legs 3 have been swung to the collapsed position, shown in said figure. The legs 4 will swing by gravity to the position shown in Fig. 3. The lever 10 being engaged by the catch bar 21 will hold the legs 3 from swinging from the collapsed position. By having the lever 10 pivoted so as to swing laterally, it may be swung so as not to interfere with the swinging of the bed into the cabinet, where the clearance room above the bed is small. The brace lever 10 serves also to increase the leverage when the bed is being swung on the pivots from the horizontal position. It also serves to firmly lock the legs 4 and 3 in the vertical position shown in Fig. 2.

Preferably, the upper ends of the legs 3 and 4 are inwardly turned forming right angled portions 22, these portions being flattened, said portions of the legs 3 being pivoted between the brackets 18 and the bars 2 to which said brackets are secured. The flattened portions 22 of the legs 4 are pivoted between said bars 2 and two brackets 18'. Below the flat portions 22 the legs 3 and 4 are cylindrical, the upper ends of said cylindrical portions bearing against the bars 2 and the brackets when the legs are swung to the normal vertical position, as shown in Fig. 2. The legs 3 and 4 can thus swing inwardly from the vertical, but can not swing outwardly from the vertical owing to the cylindrical portions of the legs contacting with the lower edges of the bars 2.

I do not limit my invention to the structure shown and described as modifications, within the scope of the appended claims, may be made without departing from the spirit of my invention.

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

1. The combination with a support, of a bed frame having two inclined tracks, each terminating at its lower end with a hook, said tracks being adapted to run upon said

support to lift and pivotally support the bed frame, two sets of legs pivoted to the bed frame, and a brace pivoted to one set of legs and having means for releasably engaging the other set of legs.

2. The combination with a support, of a bed frame having two inclined tracks each terminating at its lower end with a hook, said tracks being adapted to run upon said support to lift and pivotally support the bed frame, two sets of legs pivoted to the bed frame, and a brace pivoted to one set of legs so as to swing both vertically and laterally, and having means for releasably engaging the other set of legs.

3. The combination with a bed frame, of two sets of legs pivoted thereto so as to swing inwardly from a vertical position, and a brace secured to one set of legs and having means for releasably engaging the other set of legs for holding the legs in the vertical position.

4. The combination with a bed frame, of two sets of legs pivoted thereto so as to swing inwardly from a vertical position, and a brace pivoted to one set of legs and having a hook for releasably engaging the other set of legs for holding the legs in a vertical position.

5. The combination with a bed frame having two inclined tracks terminating at their lower ends in hooks, of two sets of legs pivoted to the bed frame, and a brace secured to one set of legs and having means for releasably engaging the other set of legs for holding the legs in the vertical position.

6. The combination with a bed frame, of two sets of legs pivoted thereto so as to swing inwardly from the vertical position, a brace pivoted to one set of legs for swinging them from the vertical position and having means for releasably engaging the other set of legs for holding both sets of legs in the vertical position, and means for releasably connecting the brace to the bed frame.

7. The combination with a bed frame having a catch, of two sets of legs pivoted to the bed frame, and a brace pivoted to one set of said legs for swinging them from the vertical position and having means for releasably engaging the other set of legs for holding both sets of legs in the vertical position, the brace being adapted to releasably engage said catch.

8. The combination with a bed frame, of two sets of legs pivoted thereto so as to swing inwardly from a vertical position, a brace pivoted to one set of legs so as to swing vertically and laterally and having means for releasably engaging the other set of legs for holding the legs in the vertical

position, and means for releasably connecting the brace to the bed frame when the brace has been swung laterally and the set of legs with which the brace is pivoted has
5 been swung inwardly to a predetermined position.

In testimony whereof I have signed my

name to this specification in presence of two subscribing witnesses.

CHARLES R. BRUCE.

Witnesses:

WARREN D. HOUSE,
E. B. HOUSE.

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