Feb. 10. 1925. 1,525,980

G. BROWN

CONVERTIBLE BED OR THE LIKE

Filed March 22, 1922 2 Sheets-Sheet 1

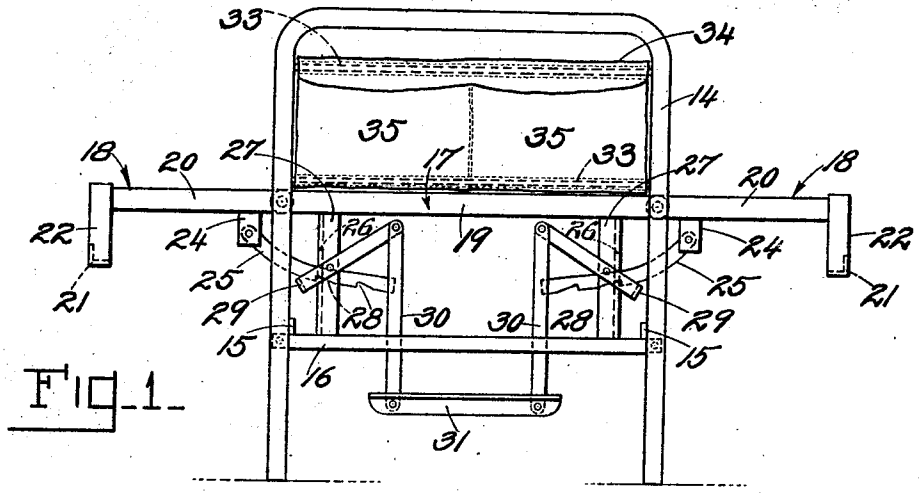


Fig. 1.

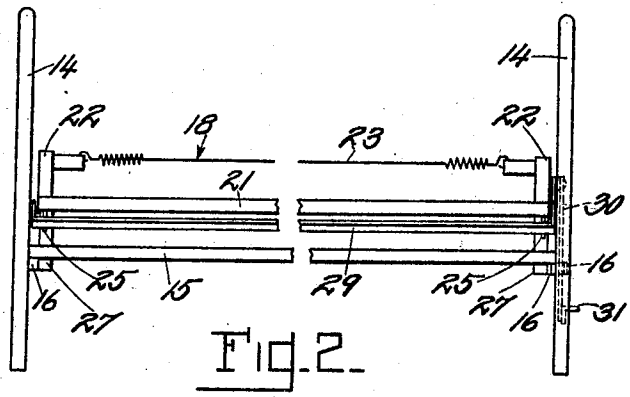


Fig. 2.

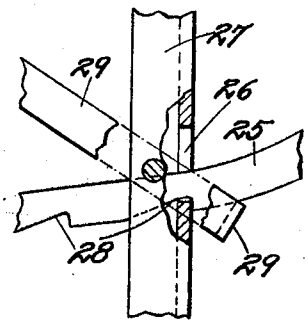


Fig. 7.

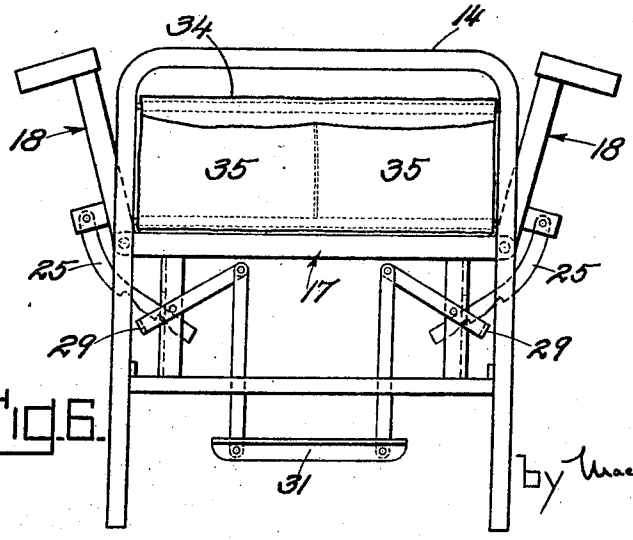


Fig. 6.

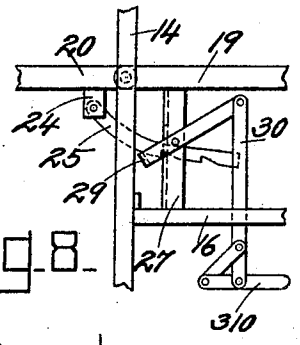


Fig. 8.

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CONVERTIBLE BED OR THE LIKE

Filed March 22, 1922 2 Sheets-Sheet 2

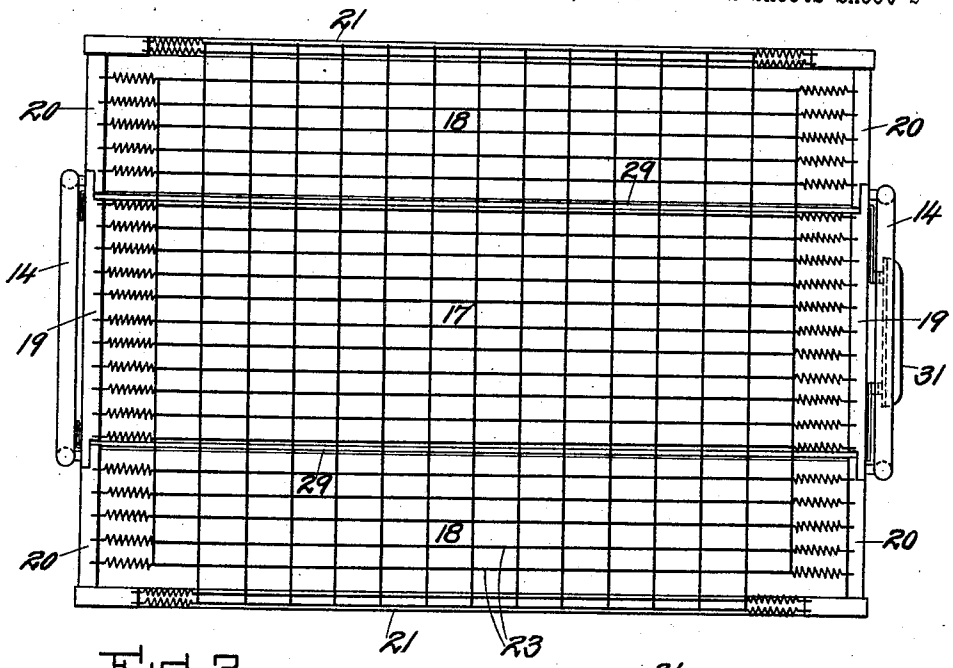


Fig. 3.

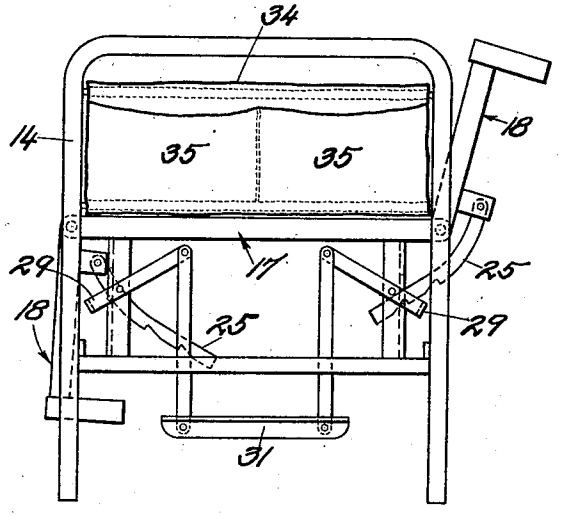


Fig. 4.

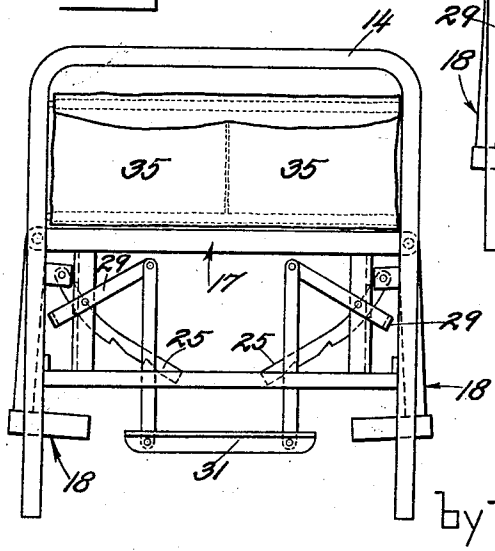


Fig. 5.

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Patented Feb. 10, 1925. 1,525,980

UNITED STATES PATENT OFFICE.

GEORGE BROWN, OF BOSTON, MASSACHUSETTS.

CONVERTIBLE BED OR THE LIKE.

Application filed March 22, 1922. Serial No. 545,799.

To all whom it may concern:

Be it known that I, GEORGE BROWN, a citizen of the United States, residing at Boston, county of Suffolk, State of Massachusetts, have invented a certain new and useful Improvement in Convertible Beds or the like, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to folding or convertible beds and similar articles of furniture, and especially to beds of the type comprising a main bed bottom section having hinged thereto one or more lateral wings adapted to be supported in horizontal position at a level with the main section so as to form a continuation thereof, or to be folded into another position when the bed is not in use, or when it is otherwise desired that the bed assume a different form, said main section and wing or wings collectively constituting a support for the mattress, which is usually of a flexible character so as to fold with the wings and thereby conform to the shape of the structure whether folded or extended.

The invention has for an object to provide a bed of the type above referred to which, when in extended position, will be of the full width of the usual double bedstead, but which may be adjusted or folded in several different ways so as to adapt the same to a wide variety of uses or conditions.

Another object of the invention is to provide improved means for controlling the positions of the hinged wings, whereby they may be securely and firmly supported against accidental release in any one or a plurality of positions, together with means whereby said wings may be conveniently released when desired for the purpose of adjusting them into a different position.

The foregoing and other objects of the invention, together with means whereby the same may be carried into effect, will best be understood from the following description of one form or embodiment thereof illustrated in the accompanying drawings, in which:

Fig. 1 is an end elevation, Fig. 2 a side elevation, and Fig. 3 a plan view of the bed, showing the same in extended or operative position.

Fig. 4 is a view similar to Fig. 1 showing the bed folded or adjusted for use as a single bed, day bed, or couch.

Fig. 5 is a view similar to Figs. 1 and 4 showing the device adjusted for use as a sofa or davenport.

Fig. 6 is a view similar to Figs. 1, 4 and 5 showing the parts adjusted for use as a child's crib.

Fig. 7 is an enlarged detail view of the supporting and locking means for one of the wings, together with the means for unlocking or releasing the same.

Fig. 8 is an end elevation of a portion of the bed illustrating a modification of the unlocking devices.

The frame of the bed comprises end uprights 14 connected by longitudinal members 15. Each of said uprights is preferably of an inverted U-shape, the vertical portions thereof constituting the legs of the bedstead, and being connected, a short distance above their lower ends, by horizontal members 16. One of the uprights 14 is preferably provided with two cross members 16 which are parallel to one another and spaced apart for the purpose hereinafter explained. Above the cross members 16 the end uprights 14 support between them a bed bottom comprising (see Figure 3) a central or main section 17 and two side sections or lateral wings 18. The main section 17 comprises end members 19 which are supported at their ends by the vertical portions of the end uprights 14 and each of which has pivoted to its opposite ends the inner ends of extensions 20 constituting the end members of the side sections or wings 18. The outer ends of the end members 20 of each wing are connected by a side rail 21, the ends of which are carried by brackets 22 depending from the ends of the members 20. By the foregoing construction it will be seen that the central section 17 of the bed bottom is rigidly supported by the bedstead frame, while the side-sections or wings 18 are in effect hinged to the opposite edges of said central section, and may be raised or lowered upon their hinges with respect thereto. The end members 19 and 20 of the bed-bottom frame are connected by longitudinal spring members 23, or other suitable devices usual in the art, to form a resilient support for a mattress, not shown.

In accordance with my invention, the

parts above referred to are so constructed and arranged that each of the wings 18 may occupy a horizontal position in alinement with the main section 17, as shown in Figures 1 and 3, to constitute a double bed, or may be dropped into a depending position below said main section, as shown in Figure 4, to form a single bed, day bed, or couch; or may be elevated into an upright position, as shown in Figure 6, to form a child's crib, or one of said wings may be dropped and the other elevated, as shown in Figure 5, to form a sofa or davenport. The invention also comprises means for securely supporting each of said wings in either the horizontal or the elevated position, together with means whereby they may be readily released and lowered or moved into a different position. To this end each of the end members 20 is provided, adjacent its point of pivotal connection with the corresponding end member 19, with a bracket 24 to which is pivotally connected one end of a curved brace 25, the opposite end of which is free. Each of the braces 25 is guided in an opening 26 (see particularly Figure 7) in an upright 27 interposed between the cross member or members 16 of the adjacent end upright 14 and the corresponding bottom frame end member 19. Each brace 25 is formed with two notches 28 each adapted to engage the bottom of the corresponding opening 26 and thereby support the corresponding wing 18 either in the horizontal position shown in Figure 1 or in the elevated position shown in Figure 6 and at the right in Figure 5. It will be noted that the uprights 27, from which the wings 20 are supported through the brace members 25, are permanently secured at both ends to rigid parts of the frame and constitute members of the latter, thereby affording strong fixed abutments for the wings.

In order that all of the braces 25 may be simultaneously released from supporting engagement with the uprights 27, so as to permit the wings 18 to be conveniently released, the braces 25 of each wing are arranged to be engaged by a bail 29 pivoted at its ends to the uprights 27 and connected, by a rod 30, with a suitable foot treadle at one end of the frame. As shown in Figures 1 to 6, both bails 29 are connected, by rods 30 at one end of the bed, with a common treadle 31, although, if preferred, each bail 29 may be connected by a rod 30 with an individual treadle, as shown at 310 in Figure 8, whereby either of the wings 18 may be released without releasing the other. The rods 30 are guided between the two parallel cross members 16 with which the end upright 14 at that end of the bed is provided, the weight of the treadle 31 and rods 30 being counterbalanced by the weight of the longitudinal portions of the bails, so that the parts normally occupy the position shown in the drawings.

As will now be seen, by depressing the treadle 31 the bails 29 may be operated to release the braces 25, thereby permitting the wings 18 to be lowered from the upright position shown in Figure 6 and at the right in Figure 5 into the horizontal position shown in Figure 1, or from the latter position into the depending position shown in Figure 4 and at the left in Figure 5. The notches 28 in the braces 25 are preferably in the form of serrations, so that the wings 18 may be freely raised from the depending position into either the horizontal or the upright position without operating the treadle 31, said braces dropping by gravity into a position to lock the wings in any position into which they are raised.

In order that a completely enclosed space may be provided when both wings are elevated into their upright positions, as shown in Figure 6, to form a child's crib, the vertical members of the end uprights 14 are preferably connected, above the bed bottom, by rods 33 which may, if desired, support a strip of fabric 34 provided with pockets 35.

It will be seen that many features of the invention above described are not only capable of considerable variation as to their details of construction, but are also capable of use in other relations than the specific ones shown. It will also be seen that the construction shown, or its equivalent, has a wide range of adaptability and may be used in many ways beside those particularly described. For example, when the bed is used by a mother and child, the wing at the side of the bed occupied by the mother may be in the horizontal position, thereby providing a bed of sufficient width, while that on the side occupied by the child may be in an upright position, thereby enclosing the latter side. In such event, or when one side of the bed is against the wall, the mother may, upon leaving the bed, raise her side into upright position, thereby completely enclosing and protecting the child. These and other advantages of the invention will, however, be obvious without further explanation.

What I claim is:

1. In a bed or the like, the combination with a frame, of a bottom supported thereby, said bottom comprising a main section and two lateral wings hinged to the opposite edges of said main section, said parts being constructed and arranged to permit each of said wings to be dropped into a depending position below said main section, to be raised into a position in alinement with said main section, or to be elevated into an upright position above said main section, braces pivoted to said hinged sections adjacent the opposite ends of the

latter, said braces having a plurality of notches to engage said frame, and means for simultaneously releasing all of said braces from engagement with said frame when said wings are in either of said two last named positions.

2. In a bed or the like, the combination with a frame, of a bottom supported thereby, said bottom comprising a main section and two lateral wings hinged to the opposite edges of said main section, said parts being constructed and arranged to permit each of said wings to be dropped into a depending position below said main section, to be raised into a position in alinement with said main section or to be elevated into an upright position above said main section, braces pivoted to said hinged sections adjacent the opposite ends of the latter, said braces having notches to engage said frame, a pair of bails pivoted to said frame and adapted respectively to engage both of said braces of one of said wings and disengage the same from said frame when said wings are in a position in alinement with said main section, or in an upright position, a treadle, and a rod connecting said treadle and bails and guided in said frame.

3. An article of furniture comprising, in combination, a frame, a bottom supported thereby and including a main section and two wings hinged to the opposite sides of said main section, braces pivoted to both ends of each of said wings, said braces having notches to engage said frame, and a pair of bails pivoted to said frame and adapted respectively to simultaneously disengage both of said braces of one of said wings from said frame.

4. An article of furniture comprising, in combination, a frame, a bottom supported thereby and including a main section and a section hinged thereto, braces pivoted to said hinged sections adjacent the opposite ends of the latter, said braces having notches to engage said frame, a bail pivoted to said frame for simultaneously disengaging both of said braces from said frame, a treadle, and a rod connecting said treadle and bail and guided in said frame.

5. A bed or the like comprising, in combination, a frame, a bottom supported thereby and including a main section and two wings hinged to the opposite sides of said main section, braces pivoted to both ends of each of said wings, said braces having notches to engage said frame, a pair of bails pivoted to said frame and adapted respectively to engage both of the braces of one of said wings and disengage the same from said frame, and a treadle and connections for operating both of said bails.

In testimony whereof I affix my signature.

GEORGE BROWN.