

March 30, 1926.

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E. P. KEBBE

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3 Sheets-Sheet 1

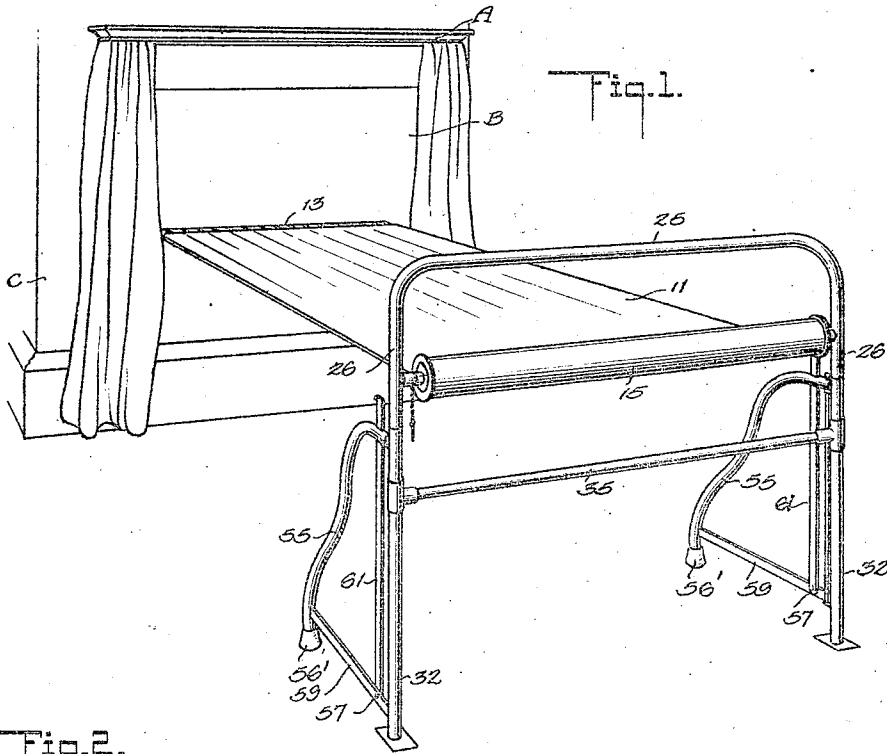
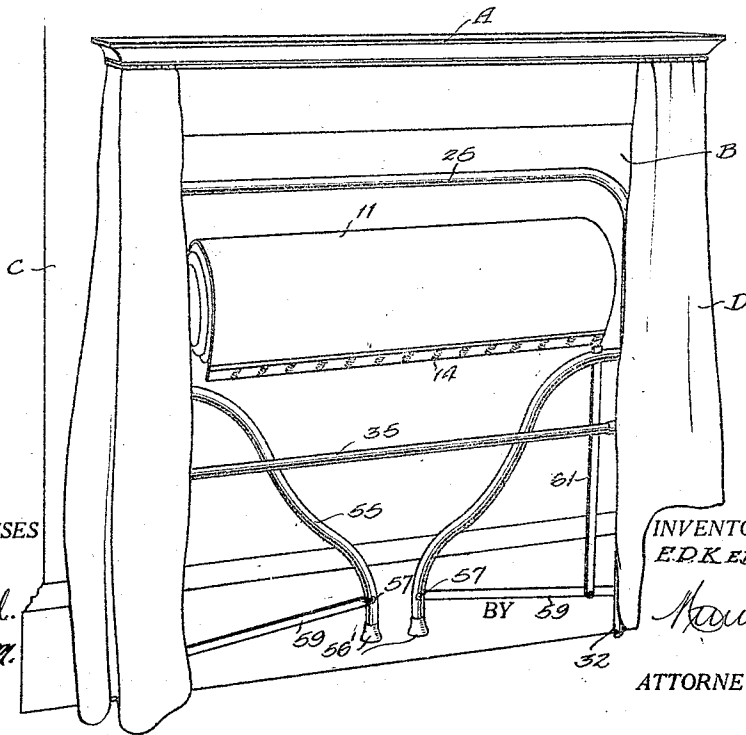


Fig. 1.

Fig. 2.



WITNESSES

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Fig. 4.

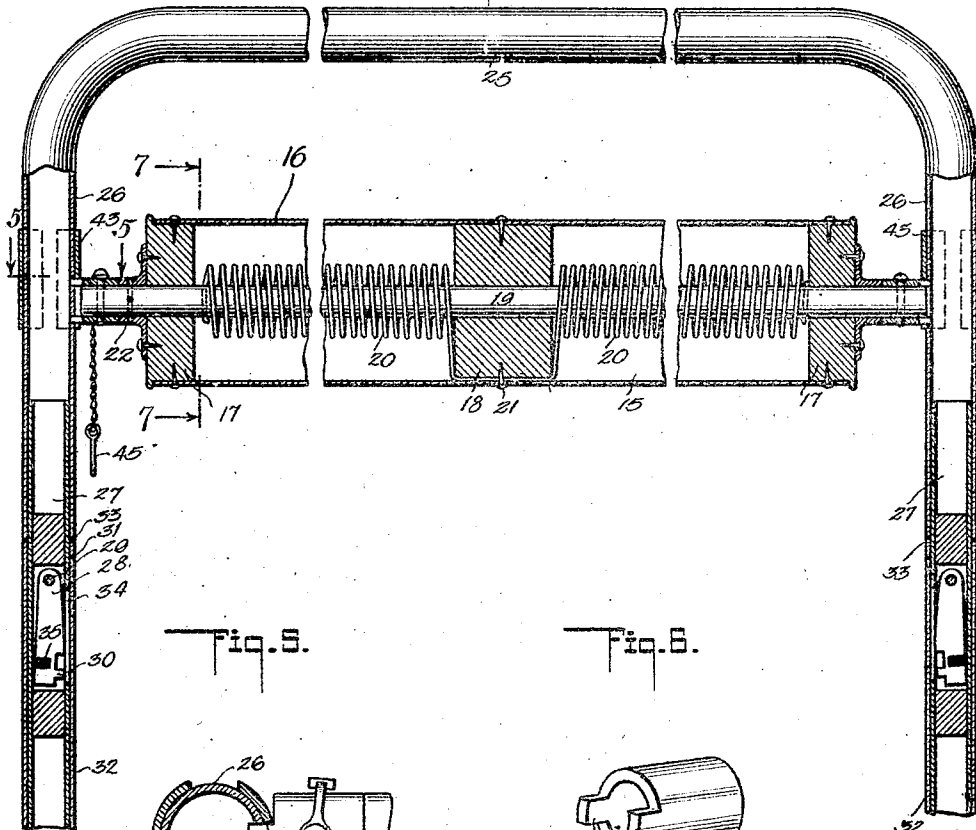


Fig. 5.

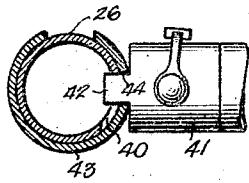


Fig. 6.

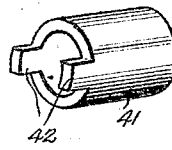
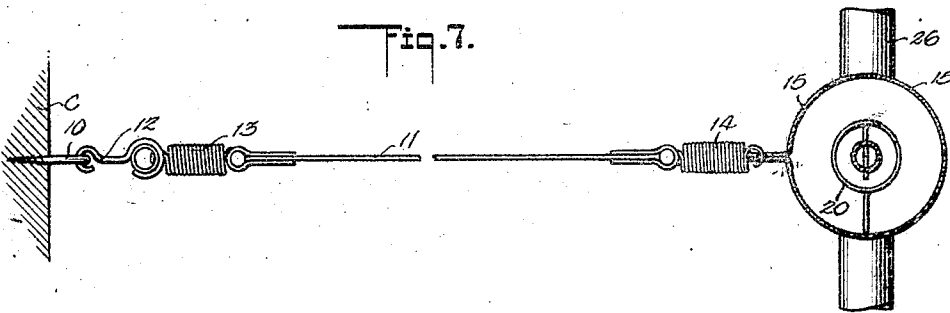


Fig. 7.



WITNESSES

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To all whom it may concern:

Be it known that I, EDWARD P. KEBBE, a citizen of the United States of America, and a resident of Newton, in the county of Middlesex and State of Massachusetts, have invented a new and Improved Bed, of which the following is a description.

The present invention relates to new and useful improvements in beds and it pertains more particularly to beds known as the concealed type.

It is one of the objects of the invention to provide a bed which when not in use may be folded and stored out of sight for the purpose of giving space to the room which the bed would occupy in its made-up condition.

It is a further object of the invention to provide means for locking the folding elements of the bed in operative position when the bed is set up.

It is a further object of the invention to provide a spring-actuated roller upon which the sleeping portion of the bed is automatically rolled when the bed is not in use.

It is a further object of the invention to construct this spring roller in such a manner that the same may be entirely removed from the bed structure without relieving the tension of the springs carried by the roller.

It is a further object of the invention to construct the bed in such a manner that when in its operative position it will be rigid and possessed of the necessary strength for the purpose desired.

With the above and other objects in view, reference is had to the accompanying drawings in which—

Figure 1 is a perspective view showing the bed in set-up or operative position;

Figure 2 is a perspective view showing the bed in folded position;

Figure 3 is a view in elevation partly in section showing the operation of placing the bed in operative position or knocking down the bed after the same has been in operative position;

Figure 4 is a view in end elevation partly in section of the foot member of the bed;

Figure 5 is a detail sectional view taken on the line 5—5 of Figure 4;

Figure 6 is a perspective view of a portion of the spring roller mounting;

Figure 7 is a detail sectional view taken

on the line 7—7 of Figure 4, a portion of the bed being shown in elevation.

Referring more particularly to the drawings, the reference character A designates a mantle, and B designates a space thereunder, which, however, may be in the form of a cavity or recess formed in a wall designated by the reference character C.

As more clearly shown in Fig. 7, a plurality of hook-like members 10 are secured to the wall C in any desired manner, and one end of a bed structure, designated by the reference numeral 11, is secured to the hooks 10, by means of link sections 12, suitable springs 13 being interposed between the bed structure 11 and the links 12. Connected to the opposite end of the bed structure, are coil springs 14, and such coil springs are connected to a roller 15 of the spring type. This roller 15 comprises a tubular member 16 having end sections 17 and a center section 18. A shaft 19 is mounted in the end sections and the center section, and a coil spring 20 is connected at its ends to the shaft 19 and intermediate its ends as at 21, to the center section 18, the roller 15 being mounted for rotation upon the shaft 19. The shaft 19 is provided with a plurality of openings 22, the purpose of which will be hereinafter described. The reference numeral 25 designates the foot section of the bed, and such foot section comprises an inverted U-shaped tubular member having side legs 26.

Each of the side legs 26 carries an internal tubular member 27 of smaller diameter than its respective leg member, and mounted in the tubular members 27, there is a swinging latch 28 pivotally mounted as at 29. This latch 28 has a lug 30 carried by one of the side walls thereof, and said lug 30 is adapted to engage, under certain conditions, in an opening 31. The reference numeral 32 designates a supporting leg, of which there are two, and each supporting leg is connected to its respective leg member 26, by means of the internal tubular member 27, the break between the leg members 26 and their respective supporting legs 32 being designated by the reference numeral 33. The internal tubular member 27 is provided with a slot 34, through which the pivoted latch 28 projects under the influence of its spring 35 in order that the lug 30 heretofore mentioned may be

engaged in its respective opening 31, for a purpose to be hereinafter described. The supporting legs 32 are connected by a transversely extending bar 35, which serves to
 5 brace the foot member of the bed in a transverse direction, and on its lower end each of the supporting legs 32 is provided with a hook 36 adapted to pass beneath a floor plate 37 and be received in a recess 38 formed in
 10 the floor. It is to be understood that this construction is duplicated on the opposite side of the foot member.

The members 26 heretofore mentioned are provided with slots 40, as shown in Fig. 5, and adapted for engagement with the slots 40 and carried by each end of the shaft 19 of the roller 15, there is a ferrule member 41, having diametrically opposed lugs or projections 42 which are received within the slots
 20 40. Slidably mounted upon each of the members 26 and adapted to retain the lugs 42 of the ferrule member in position in the slots, is a sleeve 43 such sleeve being slotted, as at 44, to receive the lugs 42 of the ferrule member 41. The reference numeral 45 designates a pin adapted to be passed through the openings 21 heretofore mentioned in the shaft 19 and also through openings 46 in the ferrule member 41, in order that the rotation of the shaft 19 relative to the roller 15 may be prevented, for the purpose of maintaining the spring 20 under tension when the roller is removed from its position in the members 26.

Each of the leg members 32 has a projecting lug 50 near its lower end, and a projecting lug 51 near its upper end. Mounted between these lugs 50 and 51 on each side of the bed there is a tubular member 52. Each
 40 of the members 26 has a lug 53 near its lower end, and said lug is provided with an opening in alinement with the openings in the lugs 50 and 51. Passing through the aligned openings in the lugs 50, 51 and 53, there is a bolt 54, which bolt also passes through the tubular member 52 heretofore mentioned. The tubular member 52 and the bolt 54 carried at each side of the foot member provides means for pivotally mounting a supporting brace, such brace comprising a downwardly bent tubular member 55 through which the upper end of the bolt 54 passes, as more clearly shown in Fig. 3. The lower end of this member 55 is provided with a foot 56', which is adapted to engage the floor and act as a brace for the foot member of the bed. These foot members 56' being in the form of rubber tip, serve to prevent lateral swinging movement of the legs.

Pivotally connected as at 57 to each of the members 55 and at 58 to its respective tubular member 52, there is an auxiliary brace 59, it being understood that the lower end of the tubular member is slotted to permit of
 60 pivotal movement of the brace 59 therein.

Pivotally secured, as at 60 to each of the braces 59 and projecting upwardly through its respective tubular member 55, there is a latch bar 61. The upper end of each latch bar 61 is provided with two notches 62 and
 70 63, to receive the defining edge of the slot through which it projects in its respective member 55, and these notches are normally maintained in engagement with the defining edge of their respective members 55 by
 75 means of a coil spring 56.

The device functions in the following manner:

Assuming that the bed is "set up" as shown in Fig. 1 and it is desired to fold up
 80 the same in order that it may be placed within the space B heretofore mentioned: To do this the member 25 is grasped and pulled upwardly until the lugs 30 of the latches 28 engage in their respective openings 31, it being understood that the internal tubular member 27 is carried by the members 26 and slides freely in the supporting legs 32 to permit of this operation. After this has been done, each of the latching levers 61 is
 90 moved out of engagement with its respective member 55 and thus permits of a movement of the parts to the dotted-line position shown in Fig. 3 and permitting of the hooks 36 of the leg members 32 being disengaged
 95 from their respective floor plates 37. When the parts are in this position, the members 55 together with the braces 59, are swung inwardly of the foot member, as shown in Fig. 2. If, now, the person collapsing the bed, walks toward the space B, under the influence of the spring 20, the bed 11 will be wound upon the roller 15, as shown in Fig. 2, and the entire device placed within the space B, which is subsequently closed by
 105 suitable draperies, or the like, D.

When it is desired to remove the roller 15, the sleeves 43 are rotated until their slots occupy a position over their respective lugs 42 when the roller may be lifted bodily
 110 from the foot section of the bed.

From the foregoing it is apparent that the present invention provides a bed which is capable of being folded and stored when not in use, and, at the same time, the construction of the bed permits of its being
 115 "set up" and in the set-up position is possessed of sufficient strength and rigidity for the purpose intended.

What is claimed is:

1. In a folding bed, a folding foot section, a roller carried thereby and upon which the bed bottom is adapted to be rolled, swinging legs for supporting the foot section in operative position, and means for anchoring said
 120 foot section in operative position.

2. In a folding bed, a bed structure having one of its ends permanently secured, a foot member, a spring roller carried by the foot member and adapted to have the bed
 130

bottom rolled thereon when the bed is in its folded position, and brace members pivotally carried by the foot member and adapted to support the foot member and the bed bottom in operative position.

5 3. In a folding bed, a foot member, a spring roller carried thereby and adapted to receive the bed bottom in rolled form thereon, a plurality of braces for said foot member, means permitting the said braces to be tilted forwardly, said braces being pivotally mounted on the foot member and adapted to swing inwardly within the confines thereof when the bed is folded, and latch members 10 for locking the brace members in their upright positions.

15 4. In a folding bed, a foot piece, a spring roller carried by said foot piece and adapted to receive the bed thereon, and means for locking said roller in said foot piece, said means comprising spaced lugs carried by the ends of the rollers adapted to be received in openings in the foot piece, and a sliding sleeve carried by the foot piece and adapted 20 to coact with said lugs to prevent displacement of the spring roller relative to the foot member.

5. In a folding bed structure, a foot member comprising a plurality of telescoping sections, a plurality of braces, each of which 30 is connected at one end to a telescoping section of the foot member, an auxiliary brace extending from one of the telescoping members to the first-mentioned braces and pivotally secured to each, and means carried by 35 the auxiliary brace and engaging the first-mentioned braces to lock the telescoping sections of the foot member against relative movement.

6. In a folding bed structure, a foot member comprising a plurality of telescoping sections, a plurality of braces, each of which is connected at one end to a telescoping section of the foot member, an auxiliary brace extending from one of the telescoping 40 members to the first mentioned braces and pivotally secured to each, and means carried by the auxiliary brace and engaging the first-mentioned brace to lock the telescoping 45 sections of the foot member against relative movement, said means comprising a pivoted lever having notches adapted to engage the first-mentioned braces. 50

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