

Sept. 9, 1930.

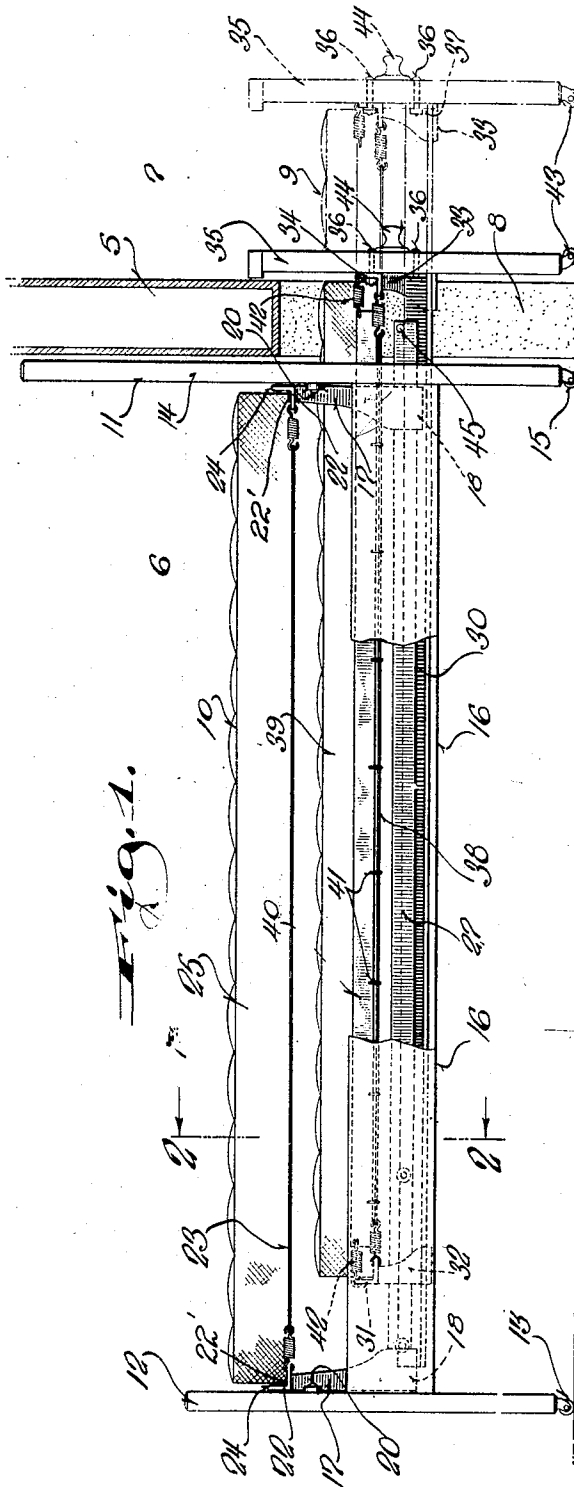
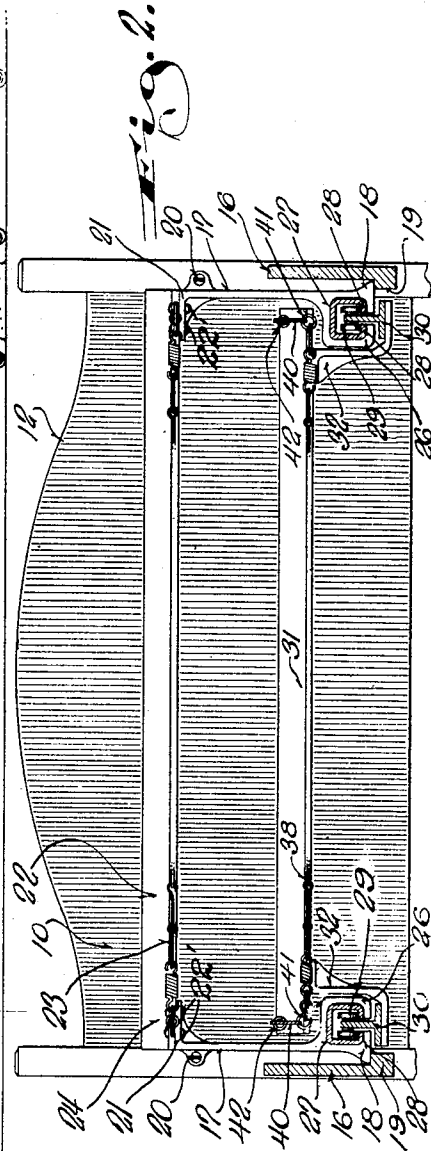
P. L. GOTTSCHALK

1,775,240

BED

Filed March 19, 1925

2 Sheets-Sheet 1



Witness
— Prosper L. Gottschalk.

By *Prof. M. Jones*
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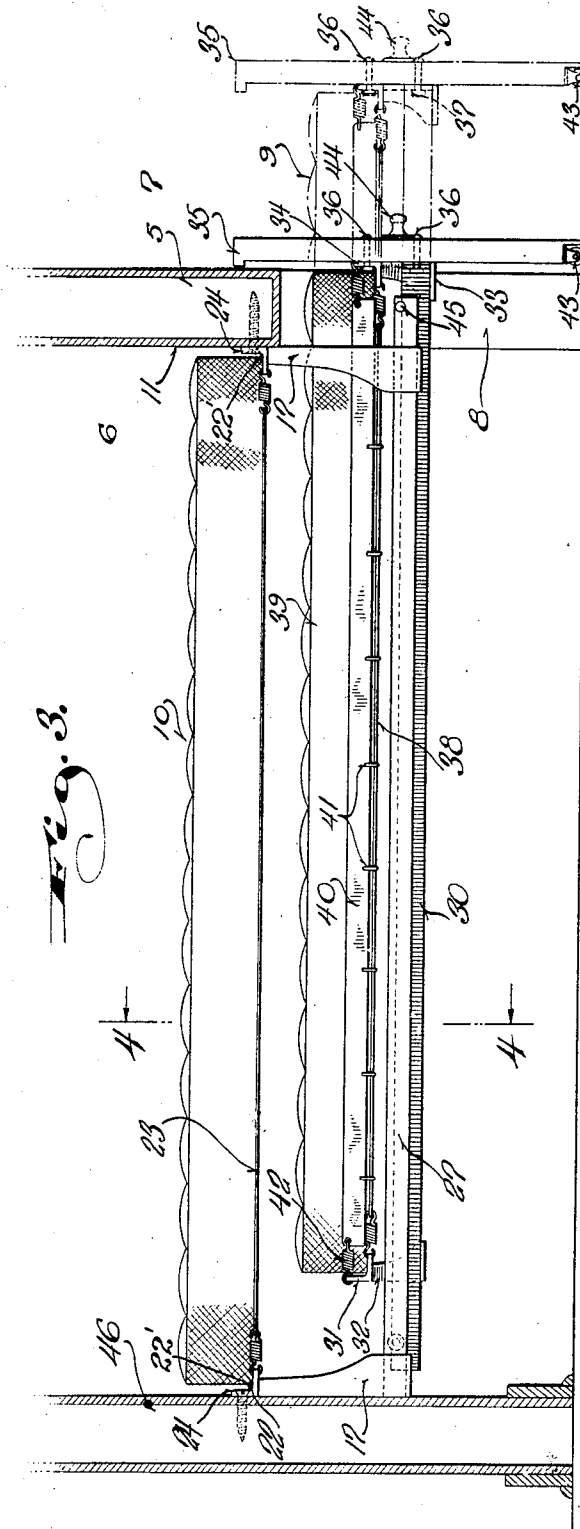
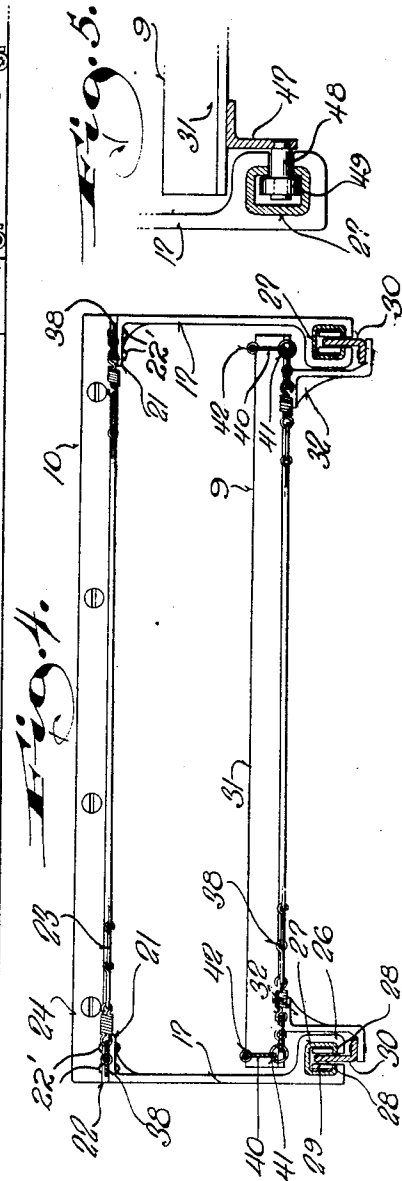
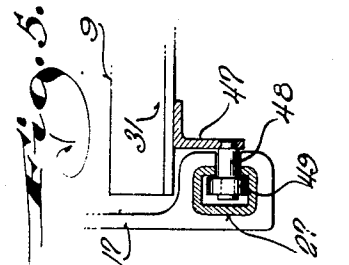
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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BED

Application filed March 19, 1925. Serial No. 16,719.

This invention relates to certain new and useful improvements in beds and refers more particularly to devices of this character especially adapted where it is desirable to conserve space.

It is a general object of this invention to provide a bed of the character described having means whereby one bed may be concealed beneath another to thus occupy the space of one when not in use, but which may be readily extended to provide separate beds of approximately full size.

Another object of this invention resides in the provision of a guard for protecting the mattress and covers of the bed which is slidable under or within the other to prevent the soiling or tearing of the mattress and bed clothes.

With the above and other objects in view which will appear as the description proceeds, my invention resides in the novel construction, combination and arrangement of parts substantially as hereinafter described and more particularly defined by the appended claims, it being understood that such changes in the precise embodiment of the herein disclosed invention may be made as come within the scope of the claims.

In the accompanying drawings, I have illustrated two complete examples of the physical embodiment of my invention constructed according to the best modes I have so far devised for the practical application of the principles thereof, and in which:

Figure 1 is a side view of a bed construction embodying my invention, parts thereof being broken away and in section to more clearly illustrate structural details;

Figure 2 is a view taken transversely through Figure 1 on the plane of the line 2-2;

Figure 3 is a view similar to Figure 1 of a slightly modified form of my invention;

Figure 4 is a view taken transversely through Figure 3 on the plane of the line 4-4, and

Figure 5 is an enlarged fragmentary detail view illustrating a slightly modified form of supporting track for the inner or concealable bed.

In the accompanying drawings, I have illustrated a bed device which may be readily utilized in apartments or houses now built or in apartments or houses at the time of their construction. In the drawings, the numeral 5 designates a partition or wall within an apartment or house and defining the rooms 6 and 7, 6 in the present instance, being the bed room and 7 the living room where, in case of an emergency, it is desirable to provide an extra bed. Of course, it will be appreciated that 7 may be any room of the apartment or house other than the living room.

The partition 5 is provided with an opening 8 therein of a height and width sufficient to permit the concealable bed 9 to be moved therethrough to a position exposed within the room 7 or to a position concealed by a bed 10 located in the room 6 with its head 11 adjacent the opening 8. The beds 9 and 10 are slidably connected in the manner now about to be described to permit the concealment of the bed 9 beneath the bed 10. While in the accompanying drawings the beds have been illustrated in different rooms when exposed for use, it will be appreciated that that type of beds illustrated in Figures 1 and 2 may be used as a unit in one room.

Referring more particularly to Figure 1, the foot member 12 of bed 10 is preferably mounted on casters 13 and is connected with the head member 14, also suitably mounted on casters 15, by side rails 16, the side rails being connected with the foot and head members in any suitable manner, not shown. The side rails 16 form supports for end brackets 17 provided with lower lateral projections 18 resting on supporting shelves 19 formed on the side rails and, if desired, the brackets 17 may be secured to the foot and head members by fastenings 20 to insure added rigidity. The bracket members 17 are preferably of the shape illustrated in Figure 2, with their upper ends directed inwardly, as at 21, and the adjacent end bracket members are connected by transverse angle bars 22 secured to their ends 21 as at 22'. The angle bars 22 provide means for mounting the spring 23 of the bed 10 and the vertical flanges 24 of the

angle members 22 prevent the mattress 25 thereof from spreading thereover.

The bottom portions of the bracket 17 are enlarged inwardly, as at 26, to form hangers for mounting guide rails 27 which slidably support the inner ends of the frame, to be later described, of the bed 9. The guide rails 27 are of inverted U-shape in cross section with their free ends directed inwardly to form supporting tracks 28 on which ride rollers 29 carried by the vertical portions of T-beams 30 which pass into the guide rails in the manner illustrated in Figure 2.

The T-beams form the side rails of the bed 9 and are connected at their inner ends to an end frame 31, similar to member 22, which is mounted on bracket members 32 fixed to the inner end portions of the T-rails. The outer ends of the T-rails are secured to bracket members 33, similar to bracket members 32, and the bracket members 33 are connected by an end rail 34, similar to the end rail 31, the end rail 34 and brackets 33 being preferably connected with a foot member 35 by bolts 36 passed through the end rail and lugs 37 on the outer end of the T-rails. The spring 38 of the bed 9 is stretched across the end rails 31 and 34 and the mattress 39 of the bed is supported thereon, being confined in a recess formed by the vertical flanges of the end rails 31 and 34 and vertical side members 40 connected with the spring 38 along its side by rings 41 and with the end rails 31 by springs 42. This construction prevents slipping of the mattress over the edge of the spring and its becoming entangled with the side rails.

The foot member 35 is also provided with casters 43 and when it is desired to use the bed 9, it is moved from under the bed 10 by grasping handle 44 formed on the foot member 35. Movement of the bed 9 to exposed position is limited by a stop 45 formed on the inner ends of the guide rails 27 which are preferably extended beyond the head member 14 into the opening 8 a slight distance to thus permit the full exposure of the bed 9 without necessitating its construction of increased length, as will be readily apparent.

The space between the springs of the respective beds is sufficient to permit bed 9 to be made and moved to concealed position and by reason of the beds being supported by the members 12, 14 and 35 which are supported on casters, it is not necessary that they be used in the manner illustrated in Figure 1, but they may be mounted in one room and, when desired, moved to operative position within the same room, as will be readily apparent.

That form of bed structure illustrated in Figure 3 is especially designed for the small type of apartment, and bed 10 is adapted to extend across one width of the room 6, being supported from the partition wall 5 and a partition wall 46. The foot and head mem-

bers 12 and 14 are eliminated and the bracket members 17 and end members 24 are directly fastened to the walls or partitions. In this form of my invention, the remaining parts of the beds are identical with the construction illustrated in Figures 1 and 2 and, therefore, further detail description is deemed unnecessary.

In Figure 5, a slightly modified form of guide rail 27 is illustrated which is turned ninety degrees and in place of the bracket members 32, angle members 47 are provided which carry stub shafts 48 passed into the guide rails 27 and carrying rollers 49 which tracks therein.

From the foregoing description taken in connection with the accompanying drawings, it will be readily apparent to those skilled in the art to which an invention of this character appertains that I provide a bed construction which will be as comfortable as a standard style of bed and which will be convenient to use and which may be used in any type of house or compartment.

What I claim as my invention is:

1. In a device of the class described, a mattress spring supporting frame comprising end members to which the spring is fastened, depending brackets secured to each end of the end members, tubular side rails having a longitudinal slot in their underside, means formed on the lower portion of the brackets for embracing the ends of the tubular side rails and having a slot forming substantially a continuation of the longitudinal slot in said tubular rails, a second spring supporting frame adapted to be concealed beneath the first-mentioned frame and comprising end members, side rails having a portion thereof extended into the tubular side rails through the longitudinal slot, and rollers carried by the side rails of the second-mentioned spring frame and adapted to track within the tubular side rails.

2. In a device of the class described, a pair of spaced stationary supports, one of which is provided with an opening, a mattress spring supporting frame connected to said supports and above said opening, said frame being connected thereto by corner brackets, each of which is provided with a depending leg, channel rails supported by said depending legs and extending adjacent the side edges of the first said frame, a second mattress spring supporting frame positioned under the first and movable through the opening in said support, means for slidably connecting the second frame with said rails to permit movement of said frame through the opening in said support, and said second frame carrying a supporting leg for supporting the frame when in an extended position.

3. In a device of the class described, a pair of spaced stationary supports, a stationary mattress supporting spring having end frame

members, guide rails, a second mattress supporting spring movably mounted from the guide rails, whereby it may be moved to and from a position concealed beneath the first spring, corner bracket members connecting
5 the guide rails and end frame members of the stationary spring, and means securing the assembled frame members, guide rails, and corner bracket members to the supports.

10 In testimony whereof I affix my signature.

PROSPER L. GOTTSCHALK.

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