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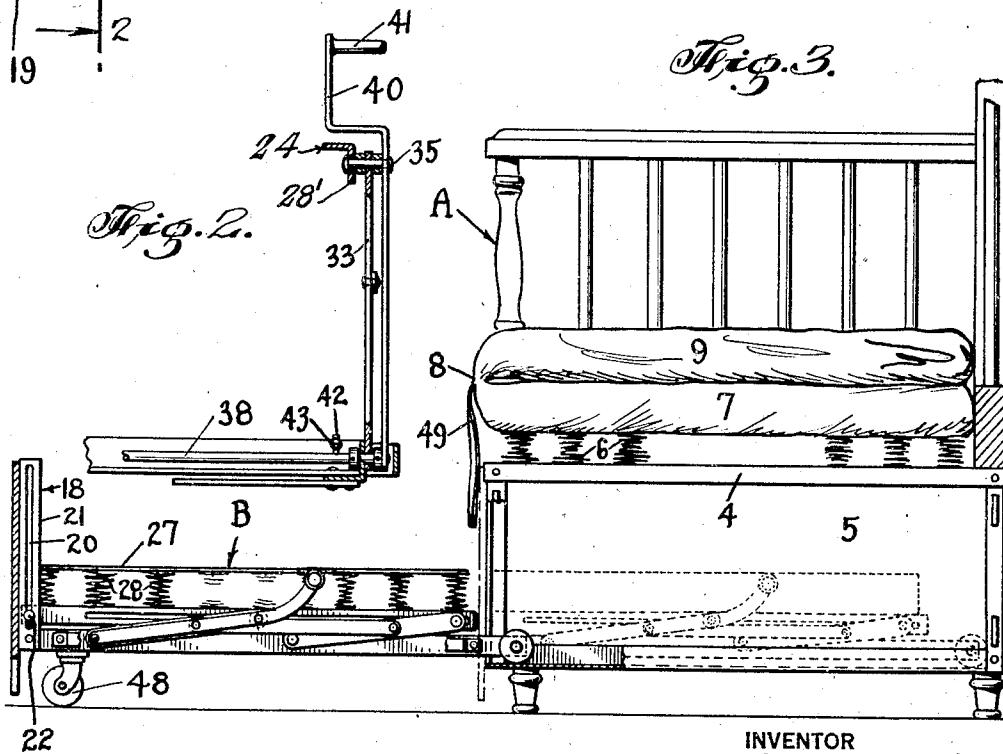
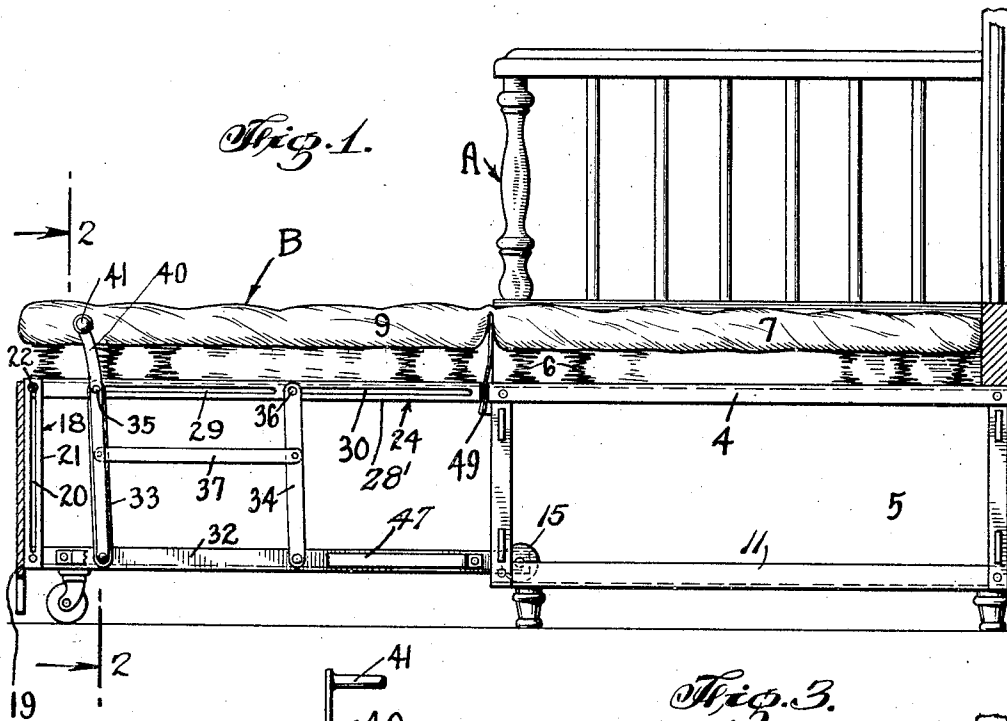
J. MARTIN

1,737,604

DAY BED

Filed May 12, 1928

2 Sheets-Sheet 1



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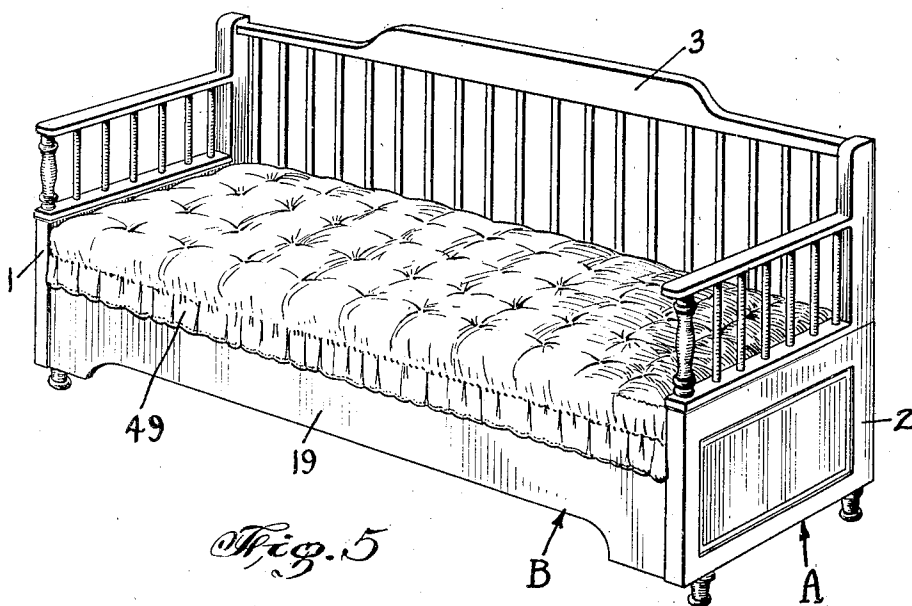
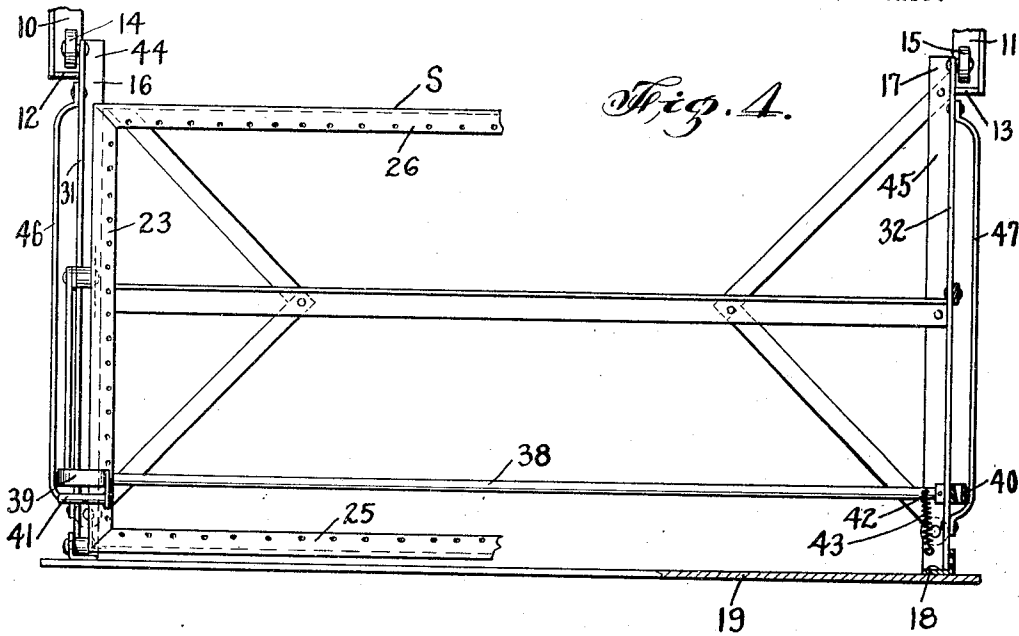
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UNITED STATES PATENT OFFICE

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DAY BED

Application filed May 12, 1928. Serial No. 277,119.

This invention relates to improvements in day beds.

Among the objects of the present invention it is aimed to provide an improved day bed having a main bed section and an extensible bed section which is adapted to be collapsed and stored under the main bed section.

It is still another object of the present invention to provide an improved day bed having a fixed bed section which is provided with a storage space, and an extensible bed section which when in use is adapted to be raised to the level of the main bed section and anchored in position adjacent to the main bed section, and which when not in use is adapted to be lowered and positioned in the storage space of said main bed section.

These and other features, capabilities and advantages will appear from the subjoined detail description of one specific embodiment thereof illustrated in the accompanying drawings in which

Figure 1 is an end elevation partly in section of the same in bed formation;

Fig. 2 is a fragmental section on the line 2-2 of Fig. 1;

Fig. 3 is an end elevation partly in section of the same partly collapsed;

Fig. 4 is a fragmental plan of the extensible bed section; and

Fig. 5 is a perspective of the complete structure in couch formation.

In the embodiment illustrated there is provided a main bed section A having two side frames 1 and 2 and a rear frame 3 rigidly connected with one another. Secured to the frame members 1, 2 and 3, there is provided a spring supporting frame 4 below which is formed a storage space 5. The frame 4 has secured thereto a bed spring composed of a plurality of coil springs 6 to the upper edge of which bed spring there is secured the section 7 of the upholstery. The section 7 is connected at 8 to the section 9 of the upholstery. The section 9, as shown in Fig. 3, rests upon the section 7. To the lower inner edge of the frames 1 and 2, there are secured the guide rails 10 and 11 respectively which have the stop ledges 12, 13, respectively at their front ends, see Fig. 4. On the rails 10 and

11, the rollers 14 and 15 of the extensible bed section B, now to be described, travel.

The extensible bed section B is provided with two side rails 16 and 17, each of which is connected at its front end with an upright angle bar 18 to the front faces of which the closure member 19 is secured. The upright angle bars 18, see Figs. 1 and 3, are provided with vertically extending slots 20 in their laterally extending flanges 21 to receive the pins 22 projecting laterally from the side bars 23 and 24 of the rectangular spring supporting frame S of the extensible bed section, which side bars 23 and 24 are connected to one another by the horizontally extending bars 25 and 26 respectively. On the frame S, there is provided a spring mattress 27 equipped with a plurality of coil springs 28 in the present instance.

The pins 22 of the side bars 23 and 24 are formed from adjacent front ends so that the front end of the spring 27 and frame S will be guided adjacent to the closure member 19 when the spring member S is raised and lowered in the manner now to be described.

The side bars 23 and 24 have vertically extending flanges 28', each of which has two elongated aligned slots 29 and 30. The slots 29 and 30 are substantially equal in length and the adjacent ends of the same are spaced from one another a comparatively short distance as shown in Fig. 1. To each of the vertically extending flanges 31 and 32 of the side bars 16 and 17, there are pivotally connected a pair of parallel links 33 and 34. Since the pair of links 33 and 34 and the appurtenant parts associated with the side bar 16 are identical with those associated with the side bar 17, it will suffice to describe but one set. The set associated with the side bar 17 will be described as illustrated in Figs. 1 and 3.

The lower ends of the links 33 and 34 are pivotally connected to the flange 32 and spaced from one another a distance equal to the distance between the front ends of the slots 29 and 30. The upper ends of the links 33 and 34 are provided with pins 35 and 36 respectively, the pin 35 traveling in the slot 29 and the pin 36 traveling in the slot 30. The links 33 and 34 are pivotally connected to one

another by the link 37, the length of which equals the distance between the lower pivotal connections of the links 33 and 34 with the flange 32 so as to maintain the links 33 and 34 parallel to one another at all times. The links 33 of each set are fixedly connected to the rocker bar 38 at their lower pivotal points.

To each end of this rocker bar, in the present instance, adjacent to the links 33, there are also provided handle bars 39, 40. Each of the handle bars 39, 40, extend upwardly adjacent to the links 33 and are secured to the pivot pins 35 at the upper ends of the links 33. The handle bars 39, 40, extend beyond the pivot pins 35 terminating in the handle members 41.

The rocker bar 38 is preferably provided with pins 42, see Fig. 4, one at each end to form an abutment for the springs 43 which extend forwardly and are connected to the horizontally extending flanges 44 and 45 of the side bars 16 and 17 respectively. The springs 43 function to facilitate raising the extensible bed member B and in turn to maintain the same in raised position after being raised. With particular reference to Fig. 1, it will be noted that the forward ends of the slots 29 and 30 extend a little further to the front, that is toward the closure member 19, than the lower pivotal connections of the links 33 and 34. By this means, when the extensible bed section B is raised, the upper ends of the links 33 and 34 will incline forwardly so that the pivot pins 35 and 36 cooperate with the front ends of the slots 29 and 30 securely to anchor the extensible bed section B in raised position.

To protect the lower pivotal points of the links 33 and 34 from injury when the extensible bed section is moved into and out of the storage space 5, there are provided the guard bars 46 and 47, each being secured at its ends to the outer face of the vertically extending flanges 31 and 32. The guards 46 and 47 will of course also serve to protect portions of the links 33 and 34 and handle bars 39 and 40 from injury when the extensible bed section B is moved into and out of the storage space 5.

To facilitate slidably moving the extensible bed section B, the front ends of the side bars 16 and 17 are provided with the castors 48. At the hinged point 8 of the sections 7 and 9 of the upholstery, there is provided the downwardly suspended strip of fabric 49.

When in couch formation, the upholstery portion 9 is folded onto the upholstery portion 7, the extensible bed section B is lowered into the collapsed position shown in Fig. 3 and the same moved into the storage space 5, with the fabric strip 49 extending over the division between the closure member 19 and the upholstery section 7.

When it is desired to open the bed into

bed formation, the extensible bed section B is first removed from the storage chamber 5 until the rollers 14 and 15 engage the stops 12 and 13. Thereupon either of the handles 41 is engaged and raised, whereupon the pins 35 and 36 will slide along the slots 29 and 30 to raise the spring member S in a horizontal position, and the pins 22 traveling in the slots 20 will guide the frame member S in a vertical direction against lateral movement while being raised, the springs 43 functioning at this time to facilitate the raising of the spring frame member S. Thereupon the upholstery section 9 will be swung over onto the spring 27 of the extensible bed section B into the position shown in Fig. 1.

When again converting the bed into couch formation, the upholstery 9 will first be swung over onto the upholstery section 7, either of the handles 41 being engaged and disposed into the position as shown in Fig. 3, thereby lowering the extensible bed section B, whereupon the extensible bed section B is moved into the storage space 5 and the fabric portion 49 raised and allowed to drop after the closure member 19 has been properly positioned.

It is obvious that various changes and modifications may be made to the details of construction without departing from the general spirit of the invention as set forth in the appended claims.

I claim:

1. The combination with a main bed section, of an extensible bed section slidably connected to said main bed section and having a front closure member extending between its ends, angle bars attached to said extensible section supporting said front closure member at the ends thereof and extending vertically on the inner face of the front closure member, a movable bed spring section, a set of connecting means operatively connecting each end of said movable bed spring section with said extensible bed section, each set including a pair of links pivotally connected to said extensible bed section, pins at the upper ends of said links, the movable bed spring section having a pair of aligned slots at its ends for receiving said pins, said angle bars each having a vertical slot therein, and a pin extending from each end of said movable bed spring section and engaging the slot of the respective angle bar.

2. The combination with a main bed section, of an extensible bed section slidably connected to said main bed section and having a front closure member extending between its ends, angle bars attached to said extensible section supporting said front closure member at the ends thereof and extending vertically on the inner face of the front closure member, a movable bed spring sec-

tion, a set of connecting means operatively connecting each end of said movable bed spring section with said extensible bed section, each set including a pair of links pivotally connected to said extensible bed section, a link for pivotally connecting the links of each pair to one another to operate together, pins at the upper ends of said links, the movable bed spring section having a pair of aligned slots at its ends for receiving said pins, said angle bars each having a vertical slot therein, and a pin extending from each end of said movable bed spring section and engaging the slot of the respective angle bar, said first mentioned aligned slots affording movement of said pair of links toward said main bed section when lowering said movable bed spring section, and a lever fixed to one of the links of said pair of links whereby movement of said lever toward the main bed section will not only lower said movable bed spring section but also cause said extensible bed section to slide into said storage space.

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