

Oct. 30, 1928.

1,689,737

W. A. MATHESON

CONVERTIBLE BED

Filed June 29, 1923

3 Sheets-Sheet 1

Fig. 1.

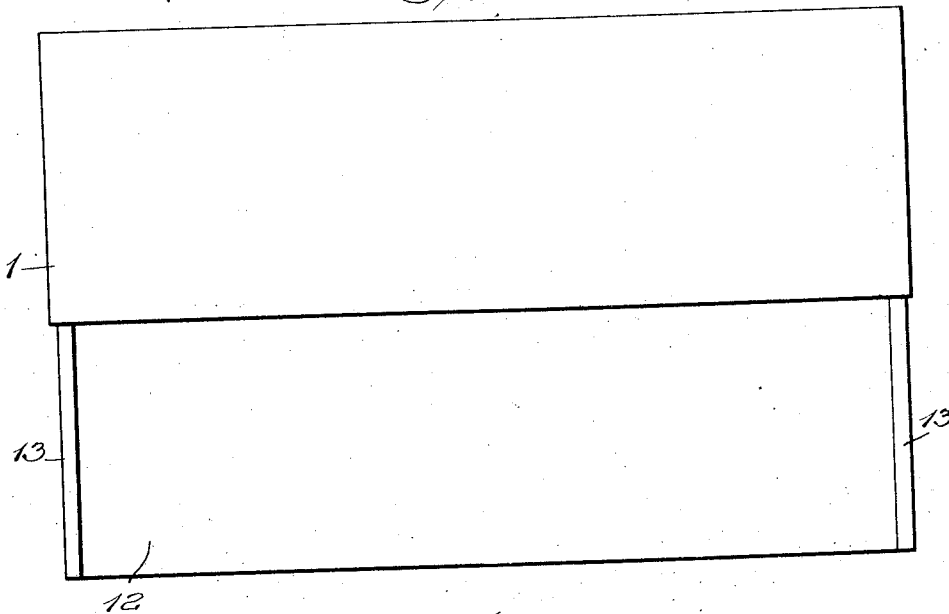


Fig. 2.

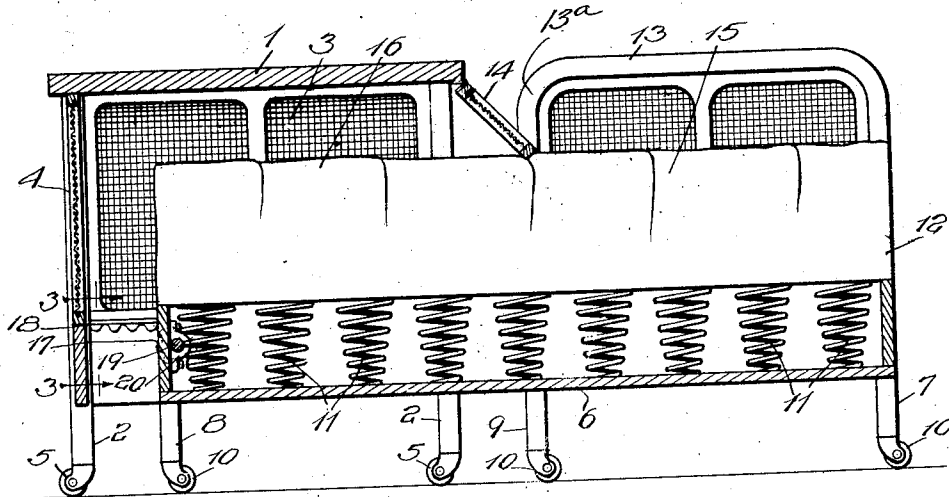
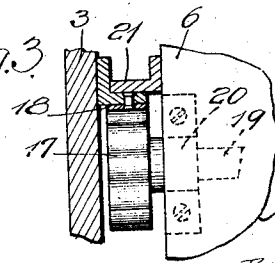


Fig. 3.



Witnesses:

W. P. Kilroy

Harry R. L. White

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William A. Matheson
By *Frederick* Attys

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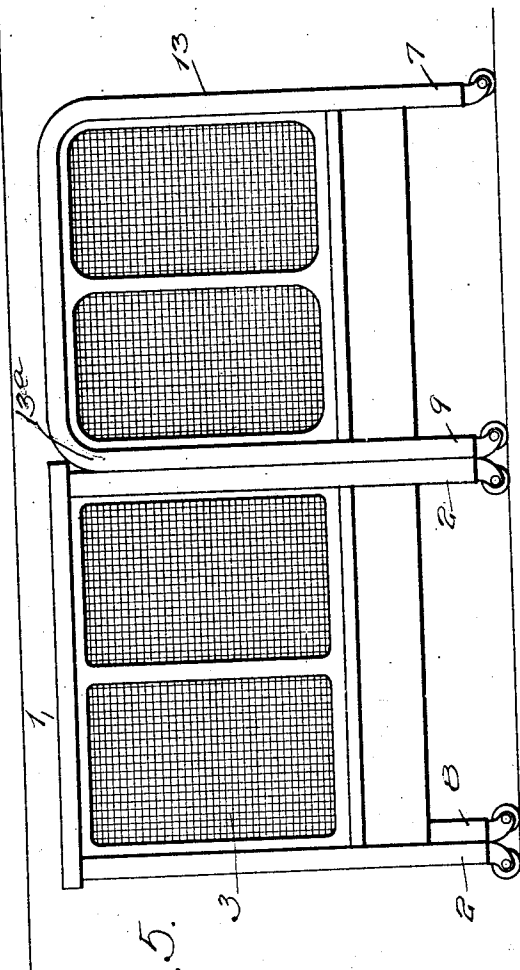
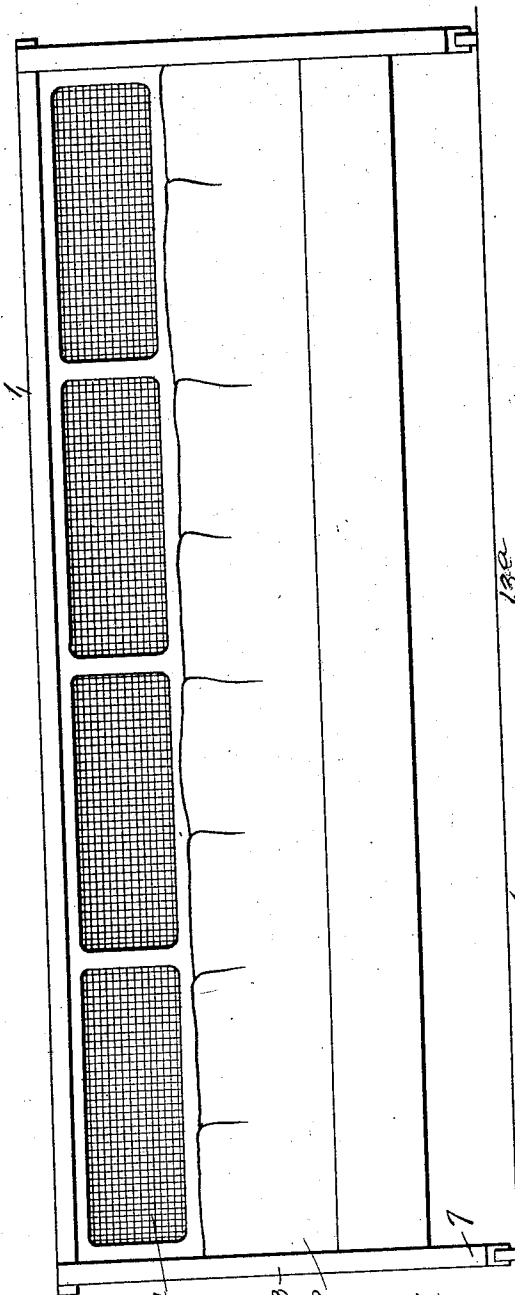
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3 Sheets-Sheet 2



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Fig. 4.

Fig. 5.

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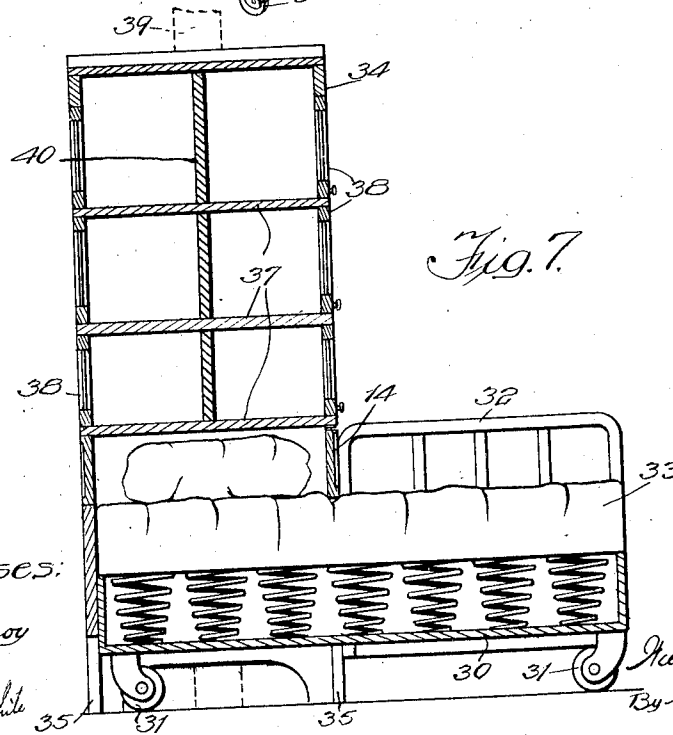
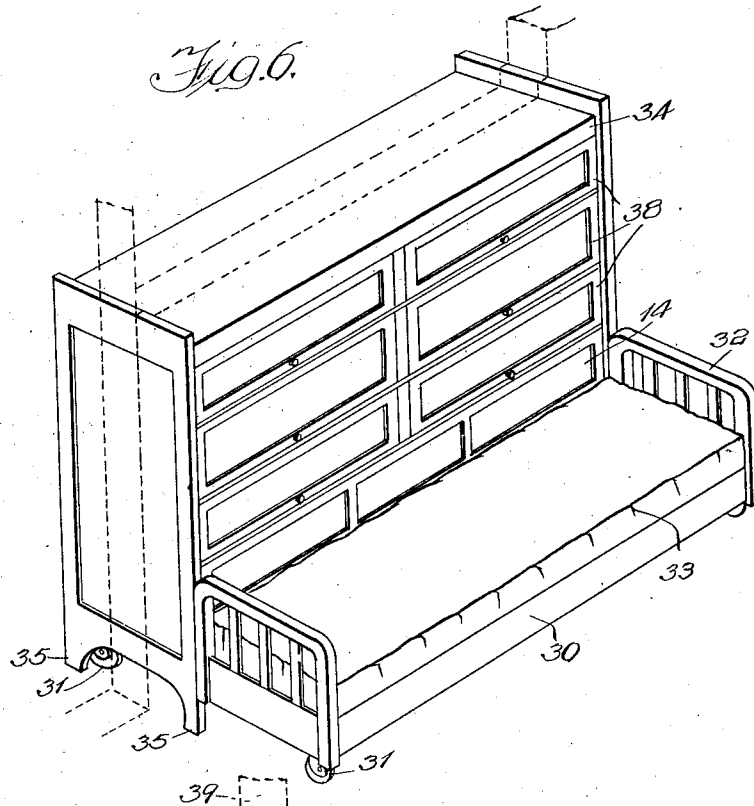
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CONVERTIBLE BED

Filed June 29, 1923

1,689,737

3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE.

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CONVERTIBLE BED.

Application filed June 29, 1923. Serial No. 648,499.

My invention belongs to that general class of devices known as beds, and relates more particularly to what may be termed a convertible bed; that is to say, that it may be used
5 as a couch or day-bed as desired, the same to a large extent resembling a settee, davenport or couch for sitting or reclining upon, or a single bed, or it may be converted into a full-size sleeping bed when desired.

10 More particularly it relates to a combination arrangement of a piece of furniture and a full-size bed, wherein the bed is slidable partially into the furniture so that a portion thereof may be concealed, while the other
15 portion is open as a day-bed. The invention has among its other objects the production of a device of the kind described which is simple, convenient, attractive and ornamental, compact, comfortable, efficient and satisfactory for use wherever found applicable.

Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art from the disclosure herein given.

25 To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

30 In the drawings, wherein like reference characters indicate like or corresponding parts.

Fig. 1 is a plan view of one form of my improved bed partially concealed within a
35 table;

Fig. 2 is a sectional view showing the bed partially pulled out;

Fig. 3 is a sectional view taken substantially on line 3—3 of Fig. 2;

40 Fig. 4 is a front elevation of the bed;

Fig. 5 is an end elevation of the same;

Fig. 6 is a perspective view of the bed and a slightly different type of furniture; and

45 Fig. 7 is a sectional view through the same.

Referring to the drawings, in which the preferred embodiments of my invention are shown, there is provided a table consisting of the top 1 having legs 2—2, etc., and provided with end and side panels 3 and 4 of

the desired design and substantially enclosing 50 the table. The table is shown provided with casters 5 so that it may be easily moved about as desired. The bed consists of a frame 6 of the desired size, shape and material and constructed in the manner preferred, 55 the same being provided with legs 7 and 8 and also in some cases with center legs 9, 10 representing casters similar to the casters 5.

It will be noted that the bed is of such size that it may be pushed within the opening of 60 the table so as to conceal a portion of the bed, the remaining portion being suitable for use as a davenport, couch or day-bed. The bed is shown provided with springs 11 and mattress and bedding 12. The part remaining 65 outside may be and is preferably provided with bedstead ends or head pieces 13—13, said ends or head pieces having upper inner end frame members 13^a—13^a. Generally, these are more or less ornamental, so that 70 when the bed is in its day-bed position, as indicated in Fig. 5, the head boards of the bed abut against the table and harmonize with the ends of the table, making a very compact as well as attractive unit, the same appearing 75 as a table against which a day-bed has been pushed. If desired, a panel 14 may be provided, hinged or otherwise secured to the top of the table and which may be raised to permit withdrawal or folding of the bed and 80 which will make the same more attractive when the parts are as shown in Fig. 5. This panel may be made to correspond with the table, or may be upholstered so as to correspond with the bed, thereby affording a back 85 to the day-bed when the portion 16 is concealed by the table and the portion 15 exposed.

In order to cause the bed to move easily in or out of the table without binding, there may be provided guiding means of any suitable type. A very simple construction comprises the placing of a gear or pinion 17 at each end of the bed, the same being connected by a shaft 19, which gears are adapted to mesh with the racks 18. The racks 18 are 95 carried by angle irons secured to the table, while the shaft 19 is carried by the brackets 20 on the bed. Obviously, as the bed is pulled

out, should one end be given a greater pull or an uneven pull as compared with the other end, the racks and pinions will cause both sides to move together and prevent binding or cramping. I have also shown a guide member 21 in the form of an angle iron arranged on the side frame 6 of the bed and which slides on the angle iron carrying the rack and further secures the parts together. Obviously, the bed portion may be moved in or out with perfect ease, and if desired, removed entirely from the table. This is particularly desirable when it is necessary to make up the bed, as one may reach both sides of the same without leaning over the entire bed. When made up and covered with a suitable covering, the bed itself and mattress may be left upon the bed, thereby not requiring the taking the bed apart and making it up each time. If the table is made with panels 3 and 4 of rattan, cane or the like, the bedding concealed within the table will air or be ventilated, differing from the case where the bedding is folded and shut in a substantially air-tight compartment. Regardless, however, of whether there is a ventilation in the sides, there will or may be ventilation from below the table.

While I have shown one type of bed and table, it is obvious to those skilled in the art that the particular ornamentation or details of construction may be varied.

In the type of device shown in Figs. 6 and 7, all of the elements shown in the preceding figures are present, except that in this case the table is made of greater height so as to provide a bookcase or other storage space. Referring to these figures, 30 represents the bed provided with casters 31 or the equivalent and with end frames or boards 32, mattress 33, springs, etc. In this case there is provided a cabinet having legs 35 which may be provided with casters if desired. This compartment is shown with a panel 14, and with shelves 37 and side panels 38, it being understood that the cabinet 34 may be of the desired size, shape and design.

I have also illustrated in Figures 6 and 7 how this particular article of furniture might be set in a door-way or in a wall 39 between two rooms, whereby the same might be opened from either side. In this particular case further partitions 40 may be provided, so that the article of furniture would be really in two rooms, but with the day-bed in one room. Generally, however, the same is in the shape of a bookcase and so arranged that books may be put in from either or both sides.

From the preceding description it will be seen that I have conceived a novel piece of furniture really consisting of three pieces as for example a table or bookcase, a day-bed, couch or single bed, as the case may be, as well as a double bed for use when desired.

Ordinarily, however, there is only exposed a very attractive piece of furniture and day-bed and which may be set up in a living room, hall or the like and present a pleasing and attractive appearance during the day time, and provide a comfortable and inviting bed at night. The same may be made in various sizes, as for example, it might be a short day-bed and wide children's double bed, or a day-bed and night bed for adults. The same may be designed to harmonize with the other articles of furniture, woodwork or building design.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described, or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:

1. In combination, an article of furniture, and a bed slidable thereinto and partially concealed thereby when not in fully open position, said bed having oppositely disposed head and foot boards extending only substantially midway of the ends of the bed from one side thereof, said head and foot boards being adapted to occupy positions exteriorly of the article of furniture and having vertical end frame members extending adjacent thereto and in the same vertical plane with the end portions thereof when said bed is in its innermost position.

2. In combination, an article of furniture, and a bed slideable thereinto and partially concealed thereby when not in full open position, said bed having oppositely disposed head and foot boards extending only partially of the width of the bed from one side thereof, said head and foot boards being adapted to occupy positions wholly exteriorly of the article of furniture when the bed is in closed position, the head and foot boards having upper inner end frame members and the bed having legs adjoining said inner end frame members of the head and foot boards, said upper end frame members and said legs extending adjacent the article of furniture when the bed is in closed position.

3. In combination, an article of furniture, a bed, and guiding means therebetween comprising a pair of angle iron bars on the article of furniture, each of said bars being disposed with one of its flanges extending vertically at the upper side thereof and secured to one side wall of the article of furniture, and its other flange projecting laterally therefrom and having a rack at the under side thereof, a pair of pinions mounted on and disposed at either side of the bed to engage said racks and interconnected to rotate in unison, and a pair of angle iron strips se-

cured to opposite sides of the bed above the said pinions, one flange of each of said last mentioned angle iron strips projecting laterally from one side of the bed to slidably engage the horizontal and vertical flanges of the first mentioned bars to maintain the operative relationship between said gear pinions

and racks, and prevent relative vertical and lateral movement between the bed and article of furniture.

In testimony whereof, I have hereunto signed my name.

WILLIAM A. MATHESON.