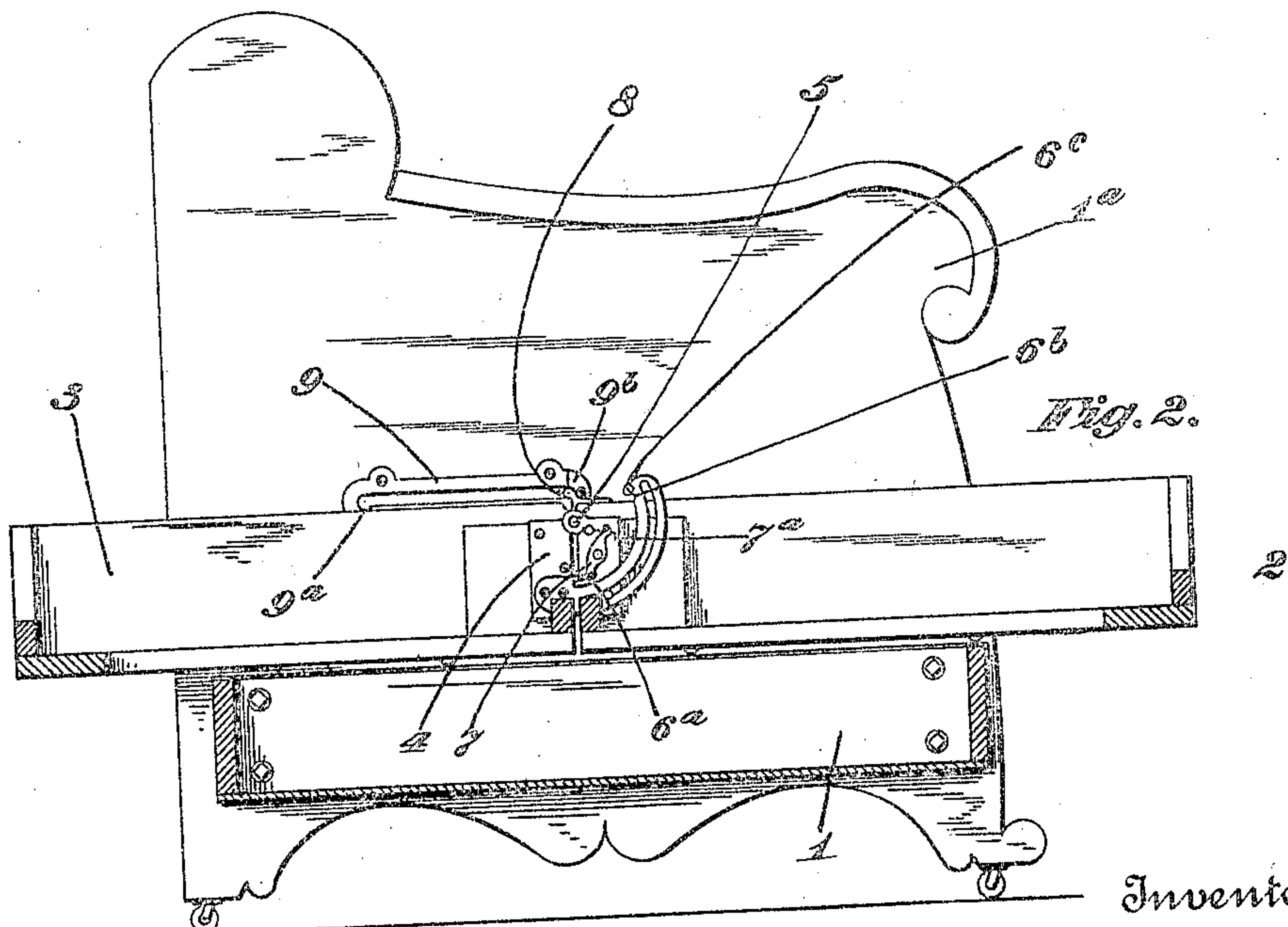
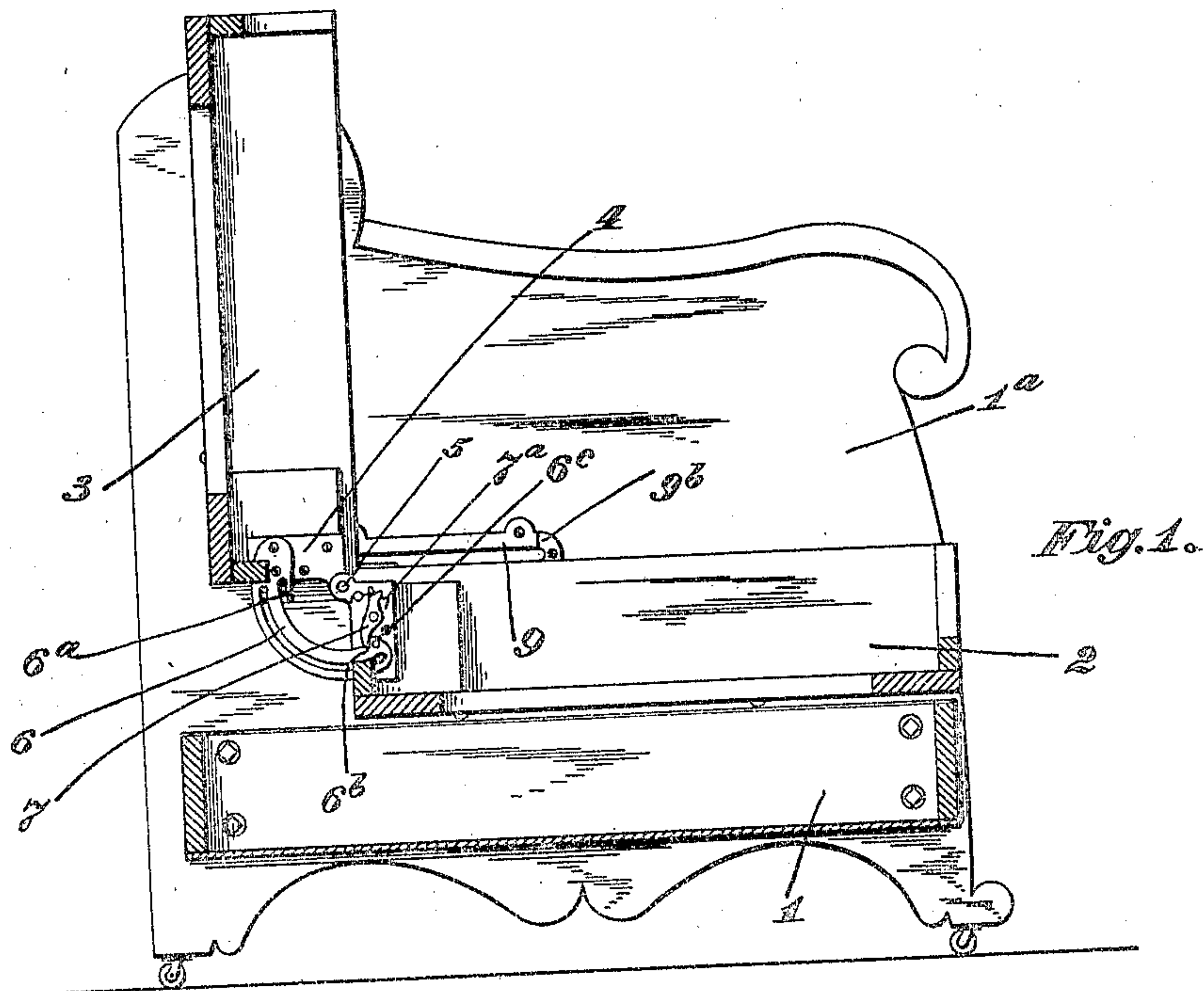


No. 818,250.

PATENTED APR. 17, 1906.

E. M. HULSE.
COMBINED COUCH AND BED.
APPLICATION FILED OCT. 5, 1904.

2 SHEETS--SHEET 1.



Witnesses

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Chas. J. Ross

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his Attorneys

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2 SHEETS—SHEET 2.

Fig. 3.

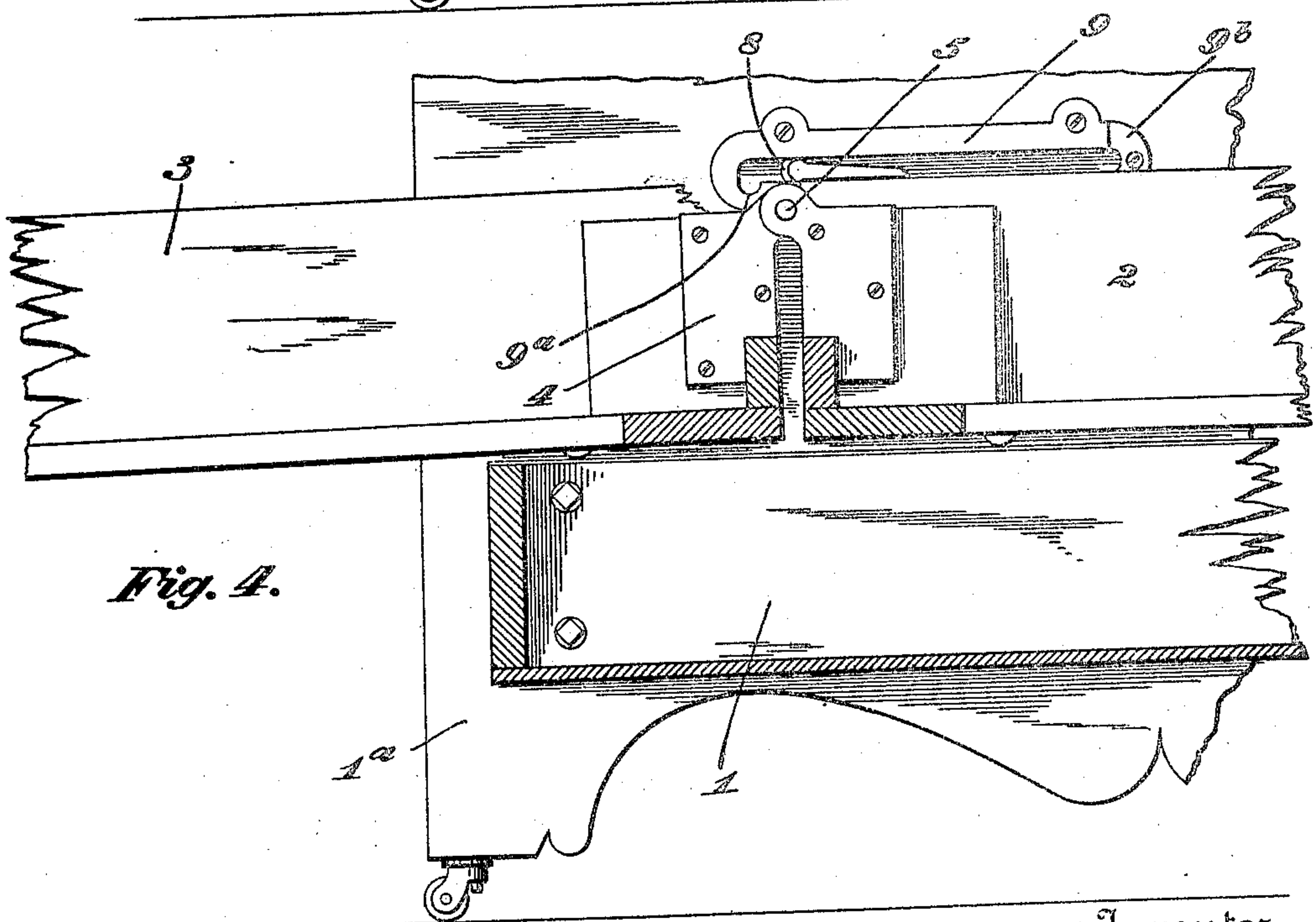
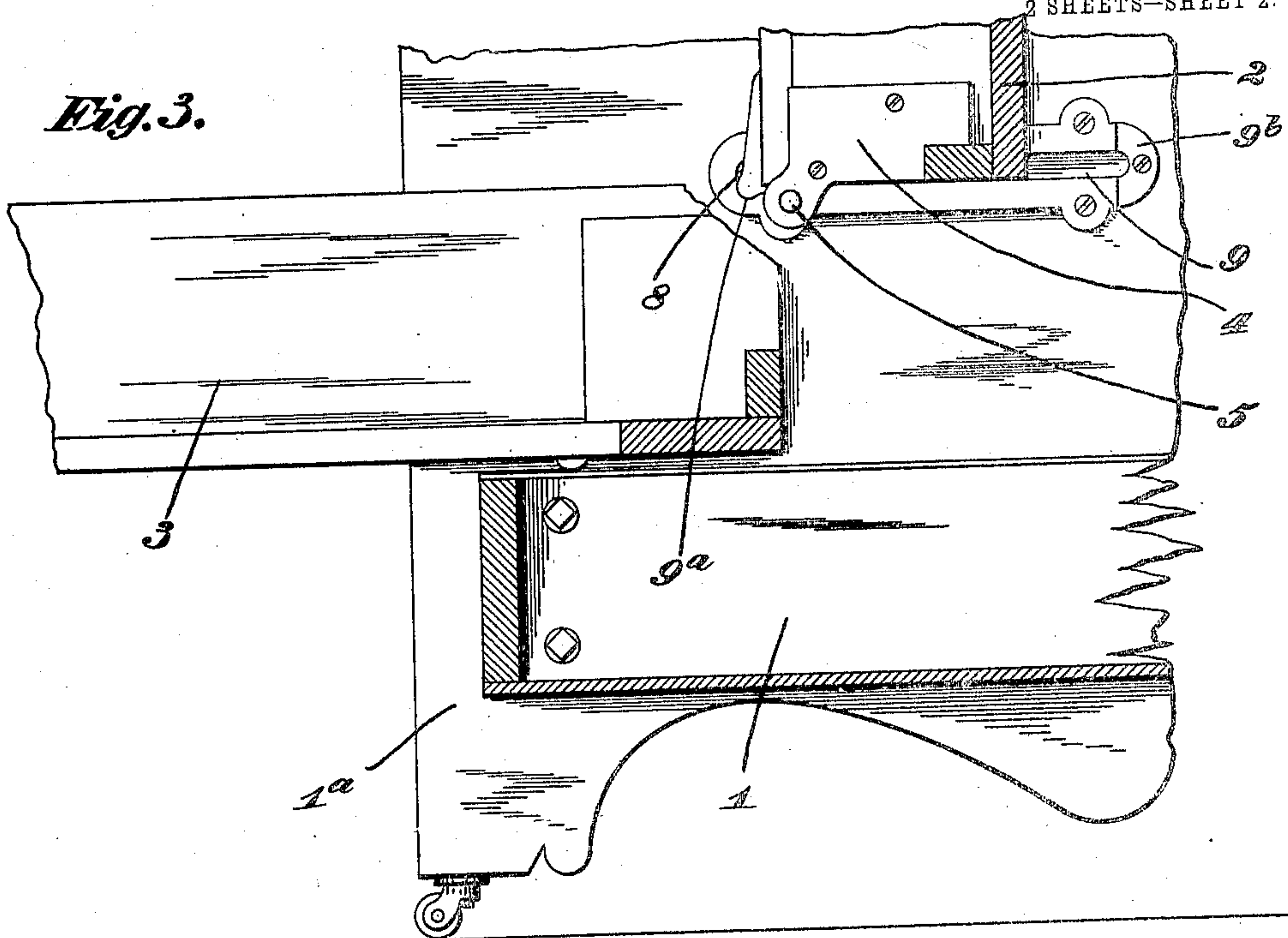


Fig. 4.

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UNITED STATES PATENT OFFICE.

EDWIN M. HULSE, OF COLUMBUS, OHIO, ASSIGNOR TO THE GENEVA FURNITURE MANUFACTURING COMPANY, OF GENEVA, NEW YORK, A CORPORATION OF NEW YORK.

COMBINED COUCH AND BED.

No. 818,260.

Specification of Letters Patent.

Patented April 17, 1906.

Application filed October 5, 1904. Serial No. 227,193.

To all whom it may concern:

Be it known that I, EDWIN M. HULSE, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in a Combined Couch and Bed; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The principal object of this invention is to provide an improved construction of couch or davenport that can be readily converted by manipulation from the front of the couch into a bed and in which the ordinary end pieces of the couch are made to serve as ample headboards.

The invention is embodied in the construction and combination of parts herein-after described and claimed.

In the accompanying drawings, Figure 1 is a transverse vertical sectional view showing the parts in their couch-forming position with the upholstery omitted. Fig. 2 is a similar view with the parts in bed-forming position. Fig. 3 is a detail sectional view, on a larger scale, showing the position of the hinge and trunnion when the seat is raised and back lowered to release the catch that holds the back in its normal angular relation to the seat. Fig. 4 is a similar view showing the position of the trunnion when the catch is released and the seat lowered to permit the back and seat to be drawn forward to form the bed.

In the several views, in which like characters of reference designate corresponding parts, 1 designates the box-like base, which is bolted to upright end pieces 1^a. 2 designates the seat portion, and 3 the back portion. These are hinged together by hinges 4, the pintle of which is designated 5.

In order that the back may be operated to convert the couch into a bed or the bed into a couch by manipulation of the seat only, the seat and back are shown to be provided with devices substantially like those shown in the Letters Patent of the United States issued to me and J. B. Hoover on June 10, 1902, No. 702,304; but in the present instance the arm 6 is made with only one tooth 6^b, which is located near the end of the arm. The arm also

has a lug 6^c at its free extremity. The reason for using one tooth only is that two positions only of the back with respect to the seat are needed—that is, a position where they are at right angles to each other and where they lie in substantially the same plane. As in said former patent, the ratchet-arm 6 is also made with a lug 6^a, and a leaf of the hinge opposite that to which the ratchet-arm 6 is affixed is provided with a pivoted pawl 7 and a spring 7^a, having two seats—one to hold the pawl in engagement with the tooth and the other to hold the pawl out of engagement with the tooth. The operation of the hinge is as follows: If the seat and back are in the position depicted in Fig. 1 and it is desired to convert the couch into a bed, the seat is lifted to a vertical position, thereby depressing the back to a horizontal position. Then by pushing the seat slightly farther toward the back the pawl is forced out of engagement with the tooth in the arm 6 and held out of engagement by the lower notch in the spring 7^a, after which the seat is free to be lowered to the position indicated by Fig. 2—the bed-forming position; but when the seat is thus lowered the lug 6^a reshifts the pawl to the other notch in the spring, in which position it will again engage the ratchet-tooth when the seat is again raised to vertical position. Any sort of device for temporarily latching the back in an angular position with respect to the seat can be provided, and I do not limit myself to the use of the device shown.

The two inner upper corners of the seat-frame are each provided with a trunnion 8, positioned eccentrically to the pintle 5 of the hinge 4, and the ends 1^a of the frame are provided with slotted runner-bearings 9, in which the trunnions are supported and are capable of being moved horizontally. The slots of the bearings 9 are, however, made at their rear ends with an auxiliary bearing 9^a recessed below the lower edge of the slot, and into these bearings 9^a the trunnions can fall to latch the seat and back from horizontal movement in the slot when the seat and back are in position to form the couch and also when they are manipulated to form the bed.

While the seat is raised to the position indicated in Fig. 3 the weight of the seat still holds the trunnion down in the bearing 9^a;

but when the seat is released and lowered to the position seen in Fig. 4 the trunnions by reason of their eccentric location with respect to the pintle 5 and by reason of the relatively
5 fixed position of the back is thrown out of the bearing 9^a, and the two parts—the seat and back—are free to be drawn toward the front, so that the ends 1^a shall be substantially
10 equally divided between the seat portion and back portion to form an ample head and foot board for the bed. While the end piece shown does not constitute a full headboard, yet it will be sufficient to retain the pillows, &c., in place.
15 Oftentimes a customer will desire upholstery of a design, material, or color different from that which happens to be in the frame. So to permit the withdrawal of the back and seat and the substitution of those containing
20 another style of upholstering the runner-bearings 9 are made open at the forward ends,

with a small matching piece 9^b screwed in place to close the opening after the seat and back have been put in place.

What I claim, and desire to secure by Letters Patent, is—

In a combined couch and bed, the combination of the base, end pieces secured thereto, runner-bearings provided with depressed auxiliary bearings at their rear ends, a seat 30 and back hinged together, trunnions projecting eccentrically with respect to the hinge of the seat and back and engaging the runner bearings, and means whereby the said seat and back may be locked in and unlocked 35 from angular relation to each other.

In testimony whereof I affix my signature in presence of two witnesses.

EDWIN M. HULSE.

Witnesses:

OLIN J. ROSS,
BENJ. FINCKEL.