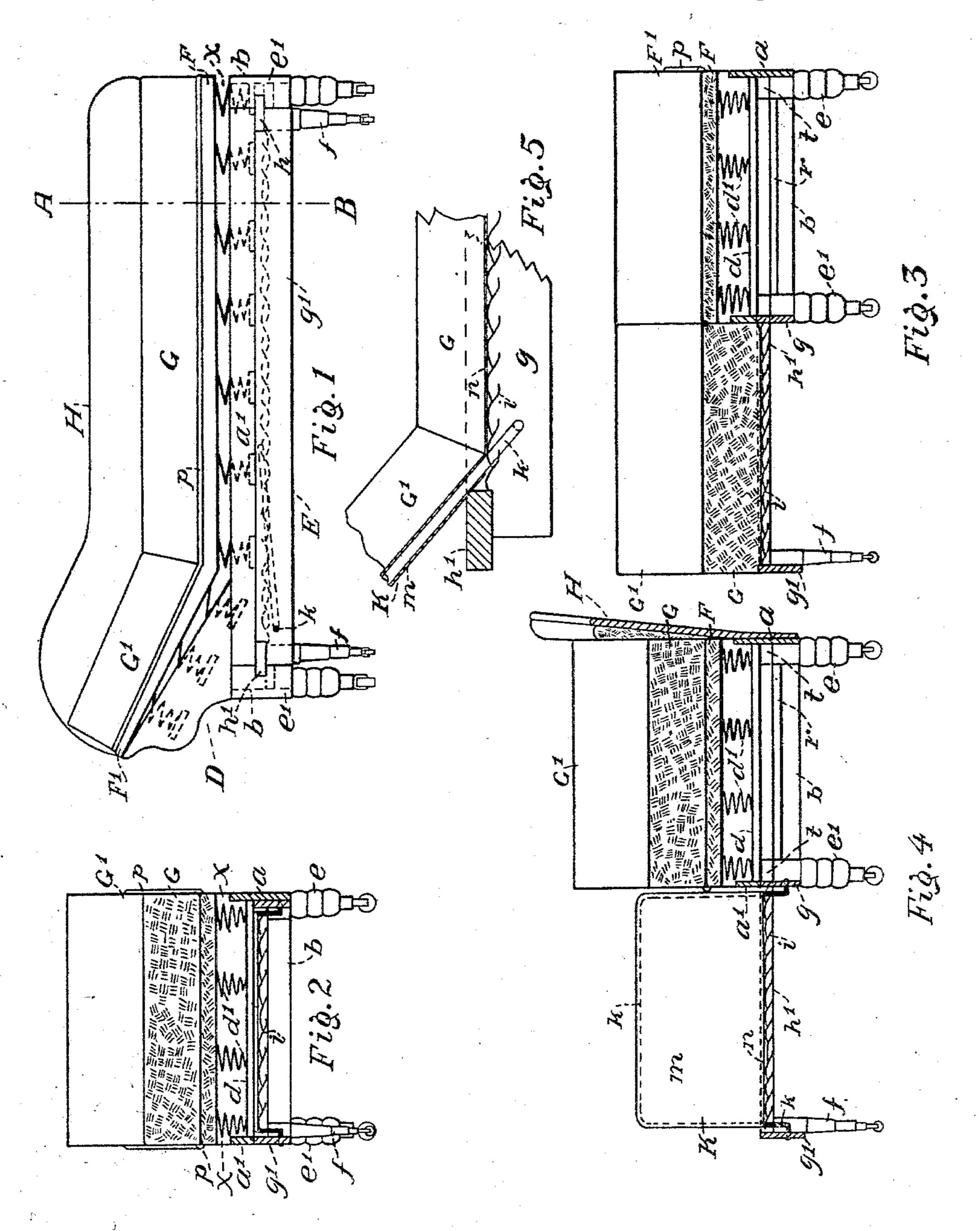
L. G. IHRIG.
BED LOUNGE.

No. 559,778.

Patented May 5, 1896.



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United States Patent Office.

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BED-LOUNGE.

SPECIFICATION forming part of Letters Patent No. 559,778, dated May 5, 1896.

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To all whom it may concern:

Be it known that I, Louis G. Ihrig, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented a new and useful Bed-Lounge, of which the following is a specification

tion. My invention relates to improvements in sofas or bed-lounges, which are ordinarily 10 used when closed for the purpose of lounging or resting upon, but in an emergency may be opened out or extended and converted into a bed; and the objects of my improvement are, first, to provide what is 15 termed a "spring-edge" couch, which may be opened and converted into a spring-bed; second, to provide a spring-couch or bedlounge, which may be opened out or extended and converted into a spring-bed, but when 20 closed will have but a single set of springs sustaining both mattresses of the bed; third, to provide a couch or bed-lounge, which may be opened out or extended and converted into two single though dependent spring-beds, 25 and, fourth, to provide a couch or bed-lounge which may be opened out or extended and converted into a spring-bed without a ridge or hard place occurring at the joint in the mattress thereof. I attain these objects by 30 the construction and arrangement of parts illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the couch or bed-lounge when closed and having a back attached thereto; Fig. 2, a section on line A B of Fig. 1, but showing the couch as it would appear without a back; Fig. 3, a section on line A B, but showing the couch opened or extended and adapted for a double springbed; Fig. 4, a section on line A B, but showing the couch opened or extended and adapted for two single beds; and Fig. 5, a detailed view, on large scale, showing the head-rest supporter of the cot-frame, in position.

Similar letters refer to similar parts throughout the several views.

The side pieces a and a', end pieces b, slats d, and legs e and e' constitute the frame D of the couch proper, which is provided with a sliding cot-frame E, adapted to pull out from the side of the couch-frame, and supported at the outer side, when so opened, by the

legs f, and on the opposite side by the legs e' of the couch-frame. The cot-frame E is composed of the side pieces g and g' and end 55 pieces h and h', which serve the double purpose of slides and of cleats, to which is fastened the woven-wire spring i, as in the ordinary set

dinary cot.

The couch-frame D is provided with slats 60 d, upon which are mounted the conical springs d', supporting the mattress or stuffed tick F and head-rest F', which are provided with the folding parts G and G', adapted to open from the frame D and rest upon the cot 65 E, which is provided with a head-rest K, adapted to open from the cot-spring i, upon which it rests, when the cot is closed into the couch, and, when so opened, is sustained at an angular position thereto by contact of the 70 $\operatorname{rod} k$ with the slide h', and when in this position adapted to sustain the head-cushion G' in such a position that the upper surface thereof will lie in the same angular plane with the upper surface of the head-rest F' of the main 75 frame D, the spring i of the cot E sustaining the mattress G, so that the upper surface thereof will lie in the same horizontal plane with the upper surface of the mattress F. This is clearly shown in Fig. 3 of the draw-80 ings, which indicates the cot-frame drawn out and the mattress G and head-rest G' in position thereon and adapting the lounge or couch to be used as an ordinary double bed.

When desirable to use the lounge as a sin- 85 gle bed, it is left as shown in Figs. 1 and 2, which may be with or without the back H, and when thus employed it will be seen that the mattresses are supported by a single set of springs, thus avoiding the hard surface 90 presented by the ordinary bed-lounge when folded, and which contains two sets of springs

having bearing upon each other.

By reference to Fig. 4 it will be seen that my couch can be so arranged as to be made 95 up into two single beds, one somewhat higher than the other. Thus in case of sickness the patient may be placed upon the lounge or couch part and the spring cot-frame drawn from the side thereof and a loose mattress thrown upon the springs of the cot-frame, and the attendant may then occupy the cot and in waiting upon the patient with medicine it would only be necessary to sit up in bed.

Thus the two may sleep side by side and still be separated, so as to avoid all danger of disturbing the patient and avoiding the necessity of the attendant arising to wait upon the 5 patient during the night. It will be noticed that the mattress G must necessarily be of a thickness equal to the distance from the top of the spring i to the top of the mattress F, and to avoid too great a thickness of the mattress, which would raise the top of the couch too high when folded, I have constructed my couch and cot frames so that the spring i will be as close to the mattress F as practicable. This I have accomplished by constructing the 15 couch-frame D with a narrow side piece a' and by providing slots t in the legs thereof, adapting the slides h and h' of the cot-frame E to operate therein, thus allowing the side piece

therein, and when opened therefrom adapting the side piece g to perform the same service. I construct my couch so as to leave a space x between the mattress F and the side pieces 25 a and a', which are made very thin to allow the first rows of conical springs to be placed close to the edges of the couch. Thus a springedge couch is provided which may be converted into a bed without the hard ridge oc-30 curring between the mattress parts thereof, which is usual in this form of lounge or couch,

g'of the cot-frame to strengthen the side piece

20 a' of the couch-frame when the cot is closed

and a continuous mattress with a spring-bearing is produced.

The pillow or head-rest supporter K is con-35 structed of a bent rod k and cloth covering or sack m, which fits snugly over the form produced by the rod k and is provided with an apron or extension n, which rests upon the spring i, and when the mattress G is opened 40 upon the cot this apron is pressed upon the spring and assists in keeping the head-rest supporter in position, as shown in Fig. 5. It will be seen that the supporter K closes upon the spring i by means of the cranked ends of 45 the rod k, which operate in the sides of the

frame E. This is necessary when closing the cot-frame into the couch-frame, and the position of the supporter, in this case, is indicated by dotted lines in Fig. 1.

Cleats r are provided to guide the cot-frame when closing or opening and are secured to the legs e and e' and to the end pieces b.

A cord p is fastened to the sides of the mattresses to hide the seams when the couch is 55 closed. This cord is fastened to both mattresses where they are fastened together; but on the opposite side it is secured to the lower mattress only, allowing the upper mattress G to be opened up, but when resting upon the 60 lower hiding the parting from view.

I am aware that prior to my invention couches have been made which are adapted to be used as beds and which have folding parts and springs supporting said parts. I

65 therefore do not claim such a combination, broadly; but

What I do claim, and desire to secure by Letters Patent as my invention, is—

1. A couch comprising a rectangular frame with an inclined end adapted to support a 70 head-rest said frame having a narrow front side piece adapted to reduce the height of said couch and slats attached at their ends to the sides of said frame and having conical springs mounted thereon and supporting a mattress 75 and head-rest clear of the top of said frame and a second mattress and head-rest hinged to the first and resting thereon and adapted to open therefrom, said frame supported by legs at the corners thereof, provided with slots 80 cut across the inner side transversely with and immediately under the front side of said frame, and a second frame adapted to open and shutin said first frame by means of slides fitting in said slots and having a woven-wire 85 spring attached thereto and side pieces between said slides supporting the narrow front side piece of said first frame when the second frame is opened from or closed therein and a head-rest supporter comprising a rec- 90 tangular frame with one open side, formed of a round rod, the ends thereof bent at right angles to the sides of said form and entering the sides of said second frame and adapted to operate therein and a sack-formed covering 95 fitting snugly over said form and having an apron extending therefrom and resting upon the wire spring of said second frame and adapted to assist in retaining the supporter in an angular position when resting against the 100 head-slide of said second frame by means of the said second mattress when opened from the first and resting upon said spring and pressing upon said apron, said supporter when thus retained adapted to support the folding 105 head-rest when opened from the first and when said parts are so arranged adapting the couch to be used as a double bed with a smooth upper surface and continuous spring-bearing substantially as shown and set forth.

2. A couch adapted to be converted into a single, double or two dependent beds and comprising a frame D, a mattress F, and head-rest F', sustained thereover by springs attached in said frame, a mattress G, and 115 head-rest G', hinged thereto and adapted to open therefrom when desirable, legs e, and e', having slots t, and cot-frame E, sliding therein upon slides h, and h', having the spring i, and sides g, and g', attached thereto 120 and adapted to support the front side a', of the couch by contact of the side pieces g, or g', therewith, legs f, supporting the outer edge of said cot when opened, a head-rest supporter pivoted in the sides g, and g', and 125 adapted to open and be sustained at an angle with the cot-frame and when the parts are so arranged, adapting the couch to be used as two dependent beds and when the mattress G, and head-rest G', are opened upon the frame 130 E, and supporter K, adapting the couch for a double bed and when the parts are closed

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adapted to be used as a single bed with one set of springs sustaining the mattress and head-rest thereof, substantially as shown and set forth.

set forth. 3. The combination with a couch comprising the frame D, having side pieces a, and a', slats d, attached at their ends thereto and having conical springs d', mounted thereon with the outer rows close to the edge of said ro frame, the mattress F, and head-rest F', mounted on said springs with a space between the side pieces a, and a', and said mattress, the mattress G, and head-rest G', hinged to said mattress F, and head-rest F', and adapted 15 to rest thereon and open therefrom, the legs e, and e', supporting said couch and having slots t, cut therein; of the cot-frame E, adapted to open and shut in said couch D, by means of slides h, and h', fitting in said slots t, of 20 legs e, and e', which support the inner edge of said cot-frame when open, said frame E, having side pieces g, and g', attached to the slides h, and h', and adapted to support the side piece a', of said couch-frame when the cot 25 is opened therefrom or closed therein and a head-rest supporter K, pivotally attached in said side pieces and sustained in an angular

position by contact with the slide h', when

the cot is open but resting upon the spring i, when closed, said supporter comprising the 30 rod k, bent in rectangular form with one open side and the ends of said rod bent at right angles to the edge of said form and adapted for the pivotal connection of said supporter to the cot-frame, a covering m, of sack form 35 fitting snugly over said rod and having an apron n, adapted to rest upon said spring i, which is attached to the inner edge of slides h, and h', and adapted to sustain the mattress G, when opened from the couch and when so 40 opened pressing the apron n, upon said spring and thereby assisting in retaining the headrest G', when opened from the couch-frame, said cot-frame being supported at the outer edge by legs f, and when the said cot and 45 couch are opened as above described adapting them for a double bed with continuous spring-bearing and when closed, said couch adapted for a single bed or couch, with but a single set of springs, sustaining the mattresses 50 thereof, substantially as shown and set forth.

LOUIS G. IHRIG.

Witnesses:
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JAMES H. YOUNG.