

No. 823,327.

PATENTED JUNE 12, 1906.

J. H. HAGEDORN.
COMBINED COUCH OR SOFA AND BED.
APPLICATION FILED NOV. 25, 1904.

2 SHEETS—SHEET 1.

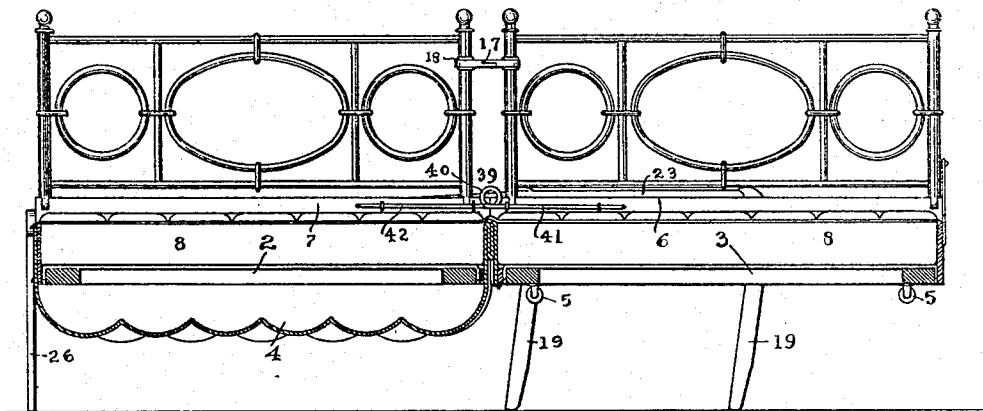


Fig. 1.

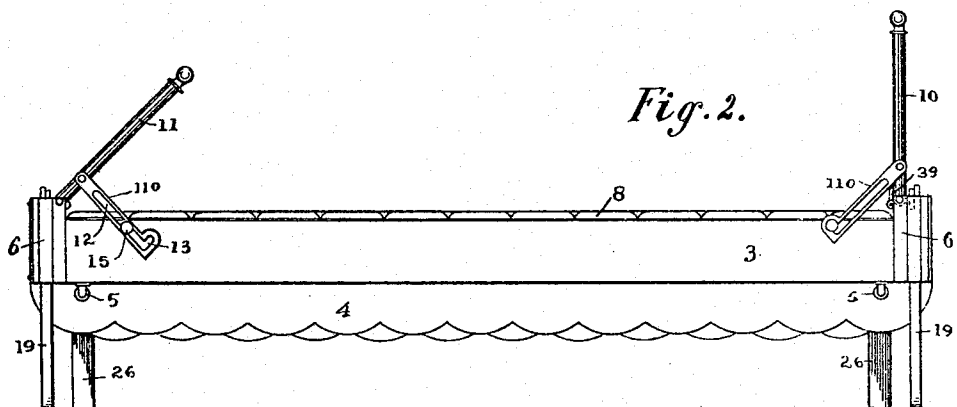


Fig. 2.

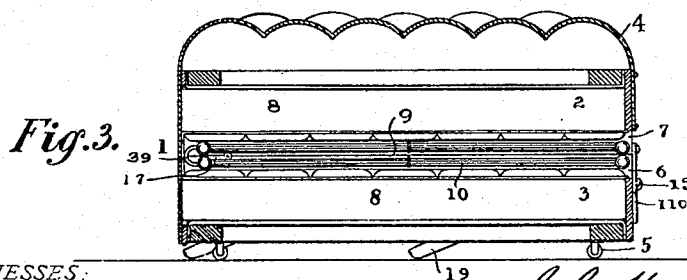


Fig. 3.

WITNESSES:

Brennan West.
Emile M. Whbrick

INVENTOR,
John Henry Hagedorn.
BY
Fouts & Hull.
ATTORNEYS.

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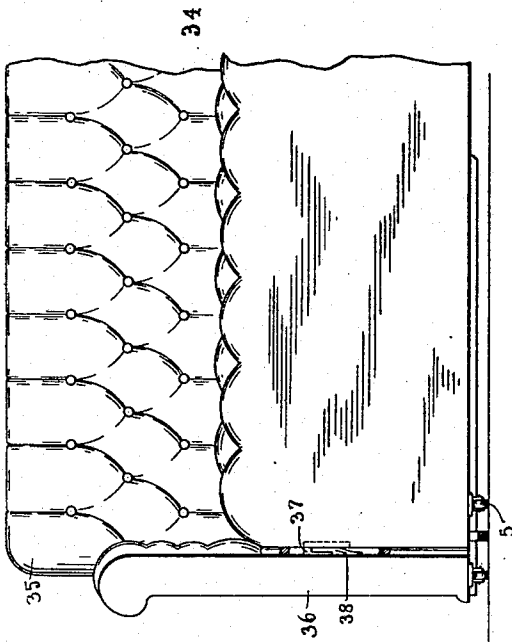


Fig. 5.

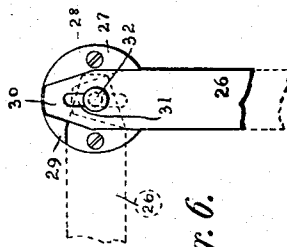


Fig. 6.

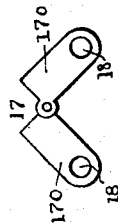


Fig. 8.

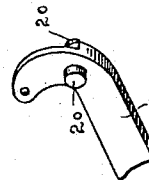


Fig. 7.

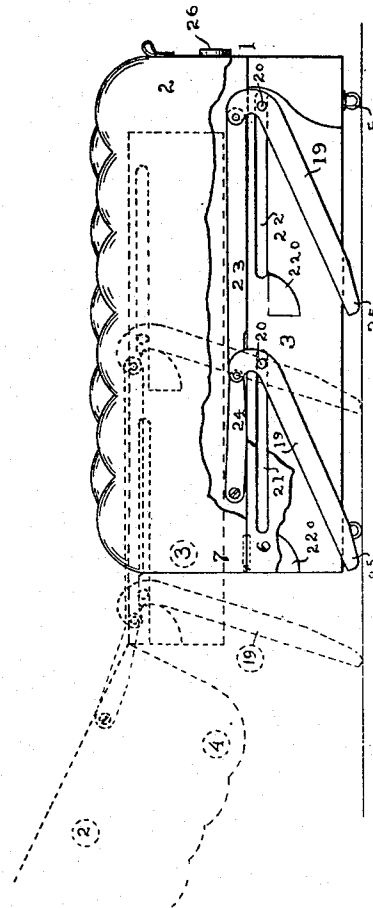


Fig. 4.

WITNESSES:

Bennett Sweet,
Emile M. Ubbich

John Henry Hagedorn, INVENTOR,
BY
Fouts & Hull, ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN HENRY HAGEDORN, OF CLEVELAND, OHIO.

COMBINED COUCH OR SOFA AND BED.

No. 823,327.

Specification of Letters Patent.

Patented June 12, 1906.

Application filed November 25, 1904. Serial No. 234,112.

To all whom it may concern:

Be it known that I, JOHN HENRY HAGEDORN, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in a Combined Couch or Sofa and Bed, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

My invention relates to a combined couch or sofa and bed, and has for its objects to construct a bed of this character which when folded up to form a couch or sofa will provide ample space for the accommodation of the bedding, thereby enabling the bed to be made up before it is converted into a couch or sofa; to construct a device of this character which when the couch or sofa is unfolded to form a bed will be automatically moved away from the wall or sofa-back, providing a space between the bed and the wall (when my invention is used as a couch) wherein a person may enter for the purpose of having access to that side of the bed, and to construct a device of this character which will, when the couch or sofa seat is unfolded to form a bed, be automatically elevated, by the unfolding of the couch or sofa seat, to the height of an ordinary bed.

Generally speaking, the invention may be defined as consisting of the combinations of elements embodied in the claims hereto annexed.

Referring to the drawings, Figure 1 represents a transverse sectional view showing one embodiment of my invention, the couch having been unfolded to form a bed. Fig. 2 represents a side elevation of the device shown in Fig. 1, illustrating the manner in which the head and foot boards may be folded down into the bed preparatory to converting the bed into a couch or sofa. Fig. 3 represents a transverse section through such device, showing the same folded up to form a couch. Fig. 4 represents an end elevation with parts broken away, showing the manner in which the couch members are elevated when unfolded to form a bed. Fig. 5 is a front elevation of the frame of a sofa or day-enport, showing the manner in which my bed and couch may be combined therewith. Fig. 6 is a detail of one of the legs which support the upper couch member when unfolded to form a bed. Fig. 7 is a perspective detail of one of the supporting-legs for the lower couch member, and Fig. 8 is a detail of the folding

link connecting the head and foot board sections.

Describing the parts by reference characters, 1 represents a couch formed by folding together the members 2 and 3, the member 2 being the upper member of said couch and being provided with upholstering material 4. The lower member 3 is provided with casters 5 for supporting the combined weight of the upper and lower members when folded to form a couch. These members are suitably pivoted together, as by hinges at the junction of the end frames 6 and 7. Each of the members 2 and 3 is provided with a mattress 8, and the end frames 6 and 7 project beyond the surfaces of said mattresses to form a receptacle or space 9, within which the head and foot boards 10 and 11 and the pillows and other bedding may be retained when the members are folded up to form a couch.

The head and foot boards are pivoted to their respective end frames and may be supported in their elevated position in any convenient manner, as by means of a link 110, having a slot 12 therein, said slot being offset at 13 to engage a suitable stud 15 to hold the said boards elevated, as shown in Fig. 2. When it is desired to fold up the bed, it is only necessary to push up the lower ends of these links to bring the stud into alinement with the slot 12, whereupon said head and foot boards may be readily folded down on top of the bedding.

Each member carries a section of the head-board and footboard, and to stiffen the complete headboard and footboard I provide a connection 17 between the adjacent sections. This member consists of a pair of links 170, hinged together at their centers, as shown in Figs. 1 and 8, and having each an eye 18, swiveled on the adjacent post of the head or foot board. As will be apparent from Figs. 1 and 8, these links are constructed to permit these sections to be folded with the couch members in the manner shown in Fig. 3 and to form a rigid brace between said sections when said members are unfolded and the sections are elevated.

In order to move the bed away from the wall when the members 2 and 3 are unfolded, I provide the following construction: 19 represents a pair of legs, located at each end of the lower couch member 2 in the space provided in the end frames 6. Each of said legs is provided with a pin 20 near the upper end thereof, engaging in oppositely-located

slots 21 and 22 in the end frame of said lower member. Adjacent the end of each of said slots is a projection or stop 220. The upper ends of the legs are preferably curved in the manner shown and are connected by a link 23. A link 24 connects the upper end of the leg which is near the hinged connection between said couch members with the end frame 7 of the upper member. The lower ends of the legs are rounded off, as shown at 25, whereby they may slide along the carpet or floor without injuring the same. As the upper member 2 is moved on its hinges away from the lower member the link 24 moves the link 23 toward the left, (see Fig. 4,) carrying the legs 19 bodily in the same direction. When said legs engage the stops 220, further movement of the upper member 2 rocks the lower member on the ends of the legs as pivots, thereby lifting said lower member bodily, as shown in dotted lines in Fig. 4, and at the same time moving said member bodily away from the position which it occupied when resting on the casters 5. This not only leaves the bed, formed by unfolding the members 2 and 3, in position for the operator to pass between the same and the wall against which the couch may have been located, but at the same time lifts the lower section or member 3 to the desired height—that of an ordinary bed. The upper member 2 when lowered so as to bring its mattress-surface in line with that of the lower member is supported by means of legs 26, pivoted to the side thereof. These legs may be conveniently constructed, as shown in Fig. 6, being pivoted to the base-plate 27, having thereon bosses 28 and 29 with a tapered space or way between them to receive the tapered end 30 of the leg 26, said leg having a slot 31 therein, through which extends a pin 32. When the member 2 is unfolded, the leg 26 drops to the position shown in full lines in Fig. 6, and the weight of the upper member forces the tapered end of said leg into the corresponding tapered way between the bosses 28 and 29 and locks the leg against displacement. When the member 2 is folded up, the leg drops down on the stud 22 and finally rests in the position shown in dotted lines in Fig. 6, being retained in such position by the boss 29, which is below the leg when said member is folded onto the lower member.

In Fig. 5 I have shown the manner in which the bed may be folded up into a couch and in this position combined with the frame of a sofa or davenport 34. The frame of such sofa or davenport consists of the back 35 and arms 36. The couch is rolled into position between the arms with its inner face against the back of the sofa or davenport, said couch being supported on its casters 5. Adjacent to the outer face of said couch and preferably carried by the upper end frame is a hook-shaped lug 37, engaging a corresponding lug

38 on the arm 36. By this means the upper member of the couch connects the arms 36 and supports the same against lateral displacement. When the couch is unfolded to form a bed, the hook 37 is lifted out of engagement with the hook 38, the bed moving away from the back of the sofa by the act of unfolding the upper member. To assist in unfolding the couch members and to lighten the weight of the upper member as it is being lowered into position to form a bed, I provide a spring 39, having a central coil 40 and a pair of arms 41 42, extending from said coil and connected with the frames 6 and 7, respectively. This spring assists in lifting the lower member when the members are unfolded to form a bed and also assists to lift such lower member when it is desired to fold it up to form a couch with the lower member. It also resists the lowering movement of said upper member, both when it is lowered onto the upper member and when it is lowered to form a bed with such upper member.

From the foregoing description it will be apparent that I have constructed a couch which may be readily and conveniently converted into a bed, and which while being unfolded for such purpose will move the bed away from the wall to permit access thereto, which by such unfolding will automatically elevate the bed to the appropriate height, and which will provide a space within which the bedding may be stored when the members are folded up to form a couch, thereby permitting the bed to be made before being folded up.

While I have described my invention in detail, it will be obvious that such details may be varied or departed from without avoiding the spirit of my invention, and I do not propose to be limited to such details except as they may be positively included in the annexed claims or as such limitations may be rendered necessary by the prior state of the art.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a couch, the combination of an upper and a lower member adapted to be unfolded to form a bed, and means connecting said members and adapted to move the lower member laterally in the direction of the unfolding of the upper member, substantially as specified.

2. In a couch, the combination of an upper and a lower member adapted to be unfolded to form a bed, and means connecting said members and adapted to elevate the lower member by the unfolding of the upper member and to move said lower member laterally in the direction of the unfolding of the upper member, substantially as specified.

3. In a couch, the combination of an upper member and a lower member adapted to

be unfolded to form a bed, supports therefor, legs carried by said lower member and adapted to be operated to elevate said member above said supports, and means connected
 5 with the upper member for operating said legs to so elevate the lower member when the members are unfolded, said connecting means being adapted to move the lower member laterally toward the upper member when
 10 the members are so unfolded, substantially as specified.

4. In a couch, the combination of an upper and a lower member adapted to be unfolded to form a bed, and means connecting
 15 said members and adapted to move both of said members laterally in the direction of the unfolding of the upper member, substantially as specified.

5. In a couch, the combination of upper
 20 and lower members adapted to be unfolded to form a bed, means for supporting said members when folded together, a slotted frame at each end of the lower member, a leg having a pin extending into the slot of said
 25 frame, a link connected to said leg and with said upper member, a stop for engaging said leg, and means for supporting said upper member when the couch is unfolded to form a bed, substantially as specified.

6. In a couch, the combination of upper
 30 and lower members adapted to be unfolded to form a bed, means carried by the lower member for supporting both of said members when folded together to form a couch, a
 35 frame at each end of said lower member having oppositely-located slots therein, legs having pins extending into said slots, a link connecting the legs at each end of the lower member, an additional link connecting each
 40 of the former links with the upper member, stops for said legs, and means for supporting the upper member in a position to form a bed with the lower member, substantially as specified.

45 7. The combination of the frame of a sofa

or the like, said frame having the ordinary back and arms, a combined folding bed and couch, said bed and couch when in its folded position forming with said frame a sofa, and means connecting the arms of said sofa with
 50 said bed and couch when the latter is in its folded position whereby said arms are supported against lateral pressure, substantially as specified.

8. The combination of the frame of a sofa
 55 or the like, of a couch comprising upper and lower members adapted to be unfolded to form a bed, means for supporting said couch within the frame and independently of the frame, and a breakable connection between
 60 the upper member and the arms of said frame, whereby said couch supports said arms against lateral displacement, substantially as specified.

9. In a couch, the combination of upper
 65 and lower members foldably connected together and adapted to be unfolded to form a bed, a frame at the end of each of said members, and a spring comprising a central coil and a pair of arms extending therefrom, one
 70 arm being connected to the frame of one of said members and the other arm being connected to the frame of the other of said members, substantially as specified.

10. In a couch, the combination of upper
 75 and lower members hinged together to permit them to be unfolded to form a bed, a common spring for said members, said spring having arms, one connected to one of said members and the other connected to the
 80 other of said members and adapted to assist in the unfolding of said members and to resist the final closing movement of said members, substantially as specified.

In testimony whereof I affix my signature 85
 in the presence of two witnesses.

JOHN HENRY HAGEDORN.

Witnesses:

R. M. CALFEE.

J. B. HULL.