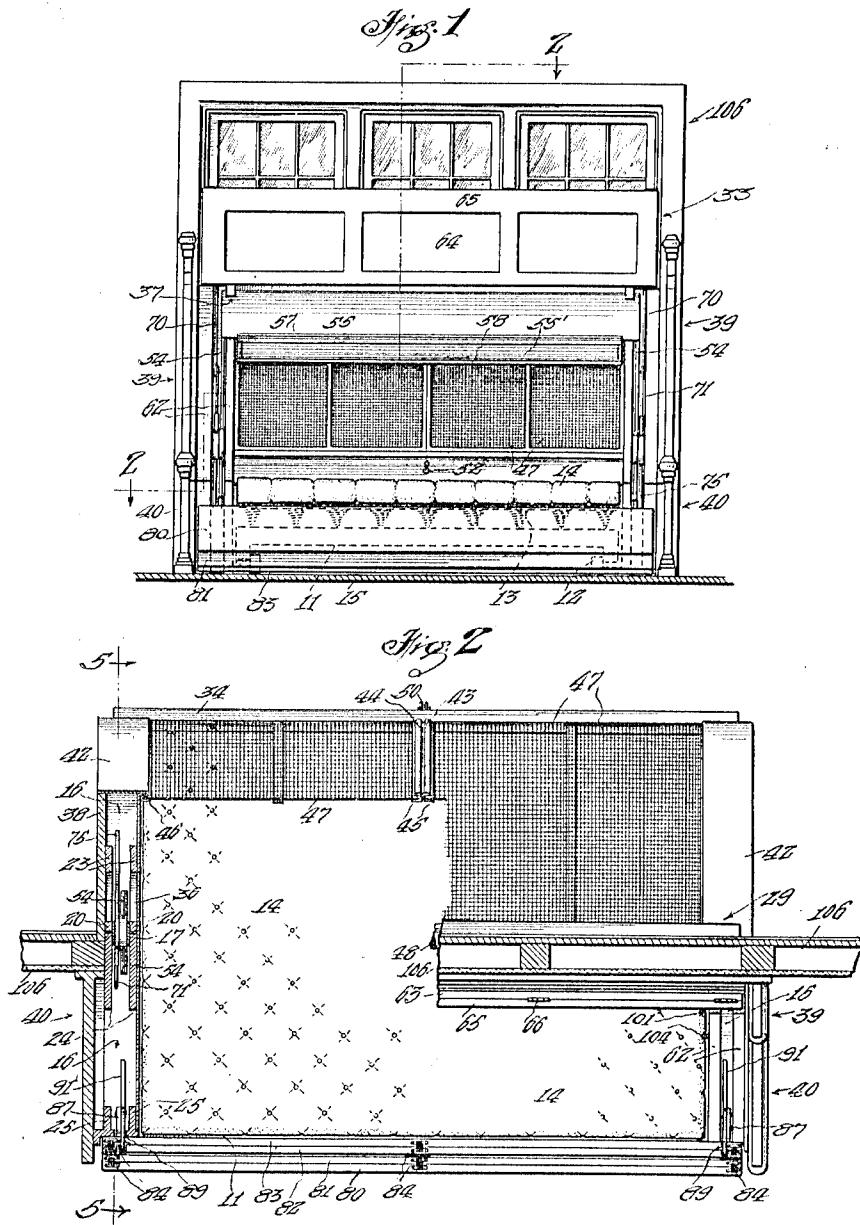


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 ADJUSTABLE COMBINED SEAT AND COVERING FOR BEDS.
 APPLICATION FILED JULY 22, 1912.

1,063,908.

Patented June 3, 1913.

3 SHEETS—SHEET 1.



Witnesses:
 M. Mansfield
 P. A. Christiansen

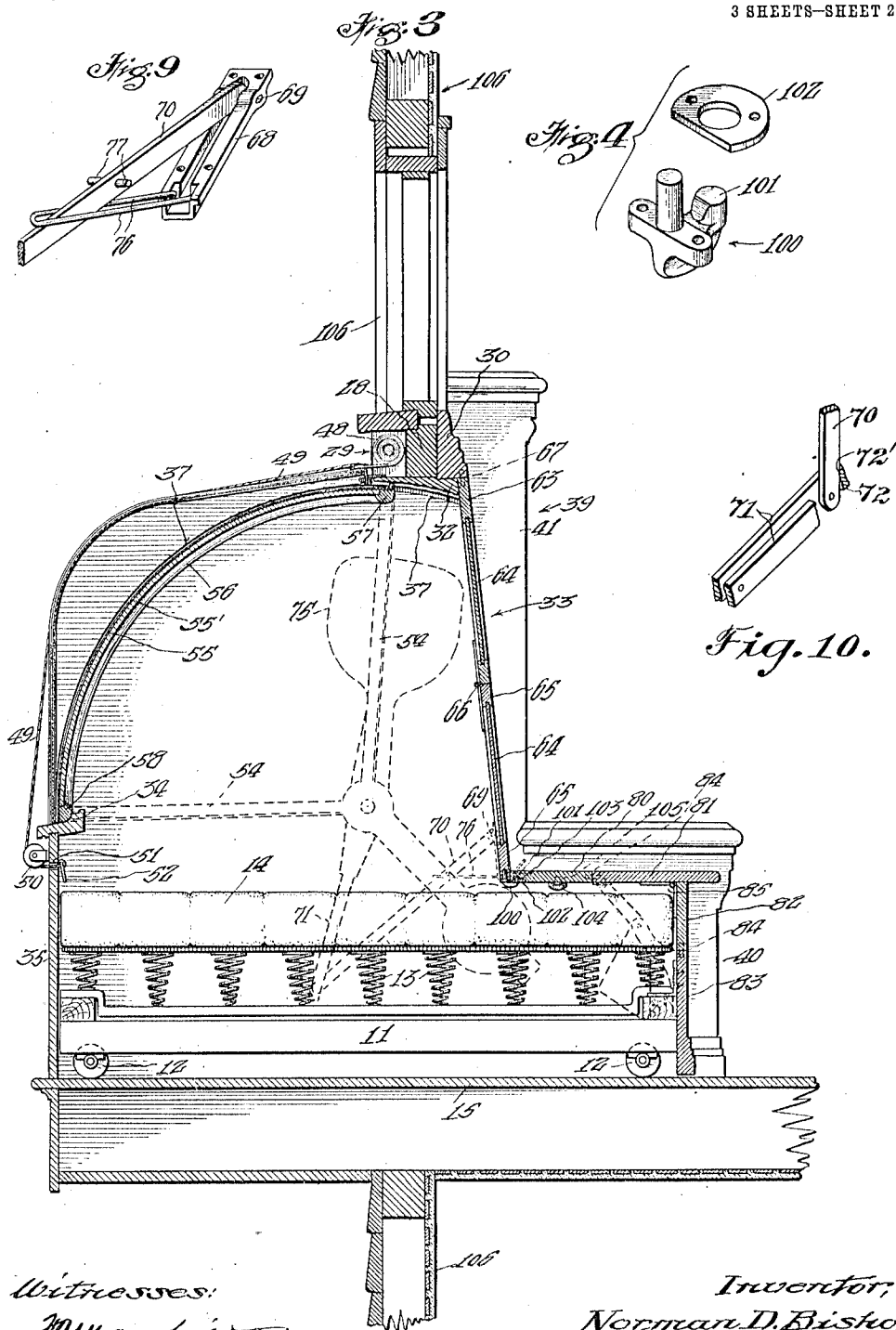
Inventor,
 Norman D. Bishop;
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Witnesses:

M. M. Angier
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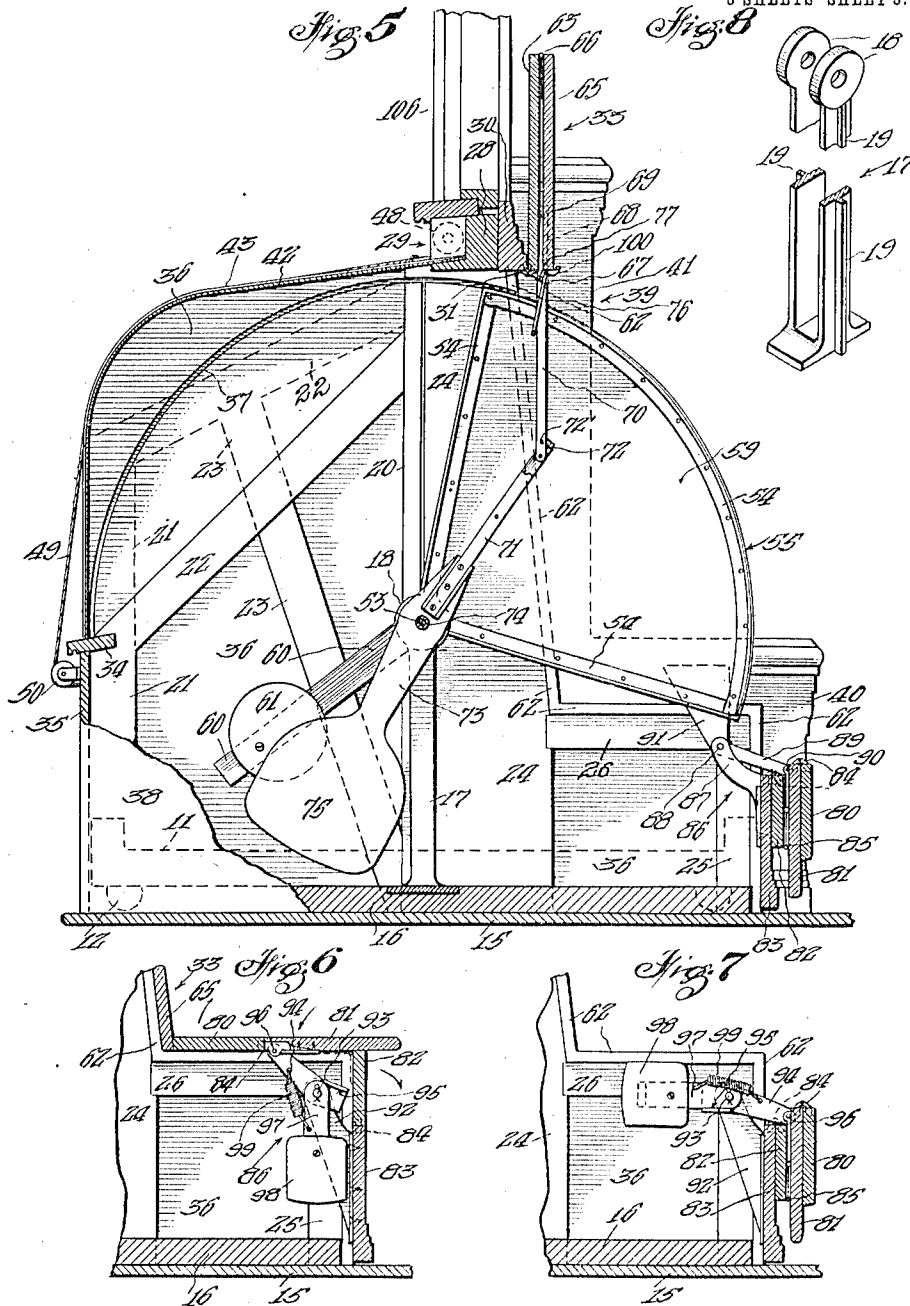
By *W. A. Liddell*
 his attorney,

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UNITED STATES PATENT OFFICE.

NORMAN D. BISHOP, OF LOS ANGELES, CALIFORNIA.

ADJUSTABLE COMBINED SEAT AND COVERING FOR BEDS.

1,063,908.

Specification of Letters Patent.

Patented June 3, 1913.

Application filed July 22, 1912. Serial No. 710,982.

To all whom it may concern:

Be it known that I, NORMAN D. BISHOP, a citizen of the United States of America, residing at Los Angeles, in the county of Los Angeles, State of California, have invented a certain new and useful Adjustable Combined Seat and Covering for Beds; 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.

This invention relates to an adjustable combined seat and covering for bed, and it may be said to consist in the provision of the novel features and in the novel and improved construction, arrangement and combination of parts and devices as will be apparent from the description and claims which follow hereinafter.

Objects of the invention are to provide an improved combined seat and covering for a bed, which is simple in construction, strong and durable, neat and attractive in appearance, easy to assemble or demount readily and quickly adjusted, convenient and effective in use, and well designed to protect from harmful effects of changes of temperature, wind and moisture.

A further object of the invention is to provide novel and improved counterbalancing devices connected with the hinged seat sections which render easy the raising and lowering of the sections and are adapted to hold them in adjusted position.

Other objects and the advantages of the invention will be apparent to those skilled in the art from a consideration of the following description of the preferred forms of construction embodying the invention, taken in connection with the accompanying drawings in which—

Figure 1 is a front elevation of the bed and covering shown arranged on a floor and adjacent to a part of a wall, the upper sections of the seat being folded together in raised position and the lower sections of the seat being folded together in lowered position; Fig. 2 is a partly broken and sectional plan view taken on the line 2—2 of Fig. 1; Fig. 3 is a view of a bed arranged on a floor and adjacent to a part of a wall, the combined seat and covering for the bed being shown in cross-section; Fig. 4 is a perspective view of the pin and socket holding parts; Fig. 5 is a partly broken and sec-

tional view taken on the line 5—5 of Fig. 2; Fig. 6 is a partly broken and sectional view of the lower portion of the seat with the counterbalancing device for facilitating the raising and lowering of the hinged sections; Fig. 7 is another view of the same; Fig. 8 is a broken perspective detail of the casting provided with bearings and adapted for connecting the frames of the double end walls of the covering; Fig. 9 is a perspective view of the knuckle plate and connected parts, and Fig. 10 is an enlarged broken perspective view of links pivotally connected together.

The bed 11, shown arranged on a platform or floor 15, may be mounted on suitable rollers 12 and it may have thereon suitable springs 13 for a mattress 14. At each side of the bed 11 are arranged suitable sills 16 having suitably secured thereto a substantially U-shaped casting 17 formed with bearings 18 at the upper end thereof and with parts 19 on the sides thereof which are adapted to extend beyond the sides of the sills 16. On each side of the sills 16 are arranged suitable frames for the double end walls of the covering for the bed and, these frames may consist of uprights 20 disposed on the inner and outer sides of the sills 16 and suitably secured to the sills and fitted against the extensions 19 on the casting 17, uprights 21 suitably secured to the sills 16 to the rear of the uprights 20, cross-pieces 22 between the uprights 20 and 21, and cross-pieces 23 between the sills and the crosspieces 22. The frames for the seat may consist of uprights 24 fitted against the extensions 19 and arranged on each side of and suitably secured to the sills 16, and shorter uprights 25 suitably secured to the sills 16 in front of the uprights 20 forwardly of the uprights 24 and connected with the uprights 24 by means of cross-pieces 26.

The front edge of the uprights 24 is preferably inclined rearwardly upwardly from the crosspieces 26, and a crosspiece 28 is arranged between the upper end portion of the outer of the uprights 24 and it may be formed to provide a recess 29 on its rear, a molding 30 on its front having its lower portion 31 projecting beyond the edge of the uprights 24, and a curved part 32 on its underside having the front edge thereof flush with the front edge of the uprights 24 to provide an abutment for the seat back

33 the upper end of which is adapted to fit against the underside of and is hingedly connected with the portion 31 of the molding 30.

5 At the top of those of the uprights 21 which are secured to the inner sides of the sills 16 and which are preferably shorter than the uprights 21 which are disposed on the outer sides of the sills, is arranged
10 a crosspiece 34 which may extend between the outer of the uprights 21 and project beyond the top edge of the panel 35 suitably affixed to the rear of the uprights 21.

The inner of the frames for the double
15 end walls of the covering and seat may have comparatively thin veneer paneling 36 suitably affixed thereon and provided with arc-shaped slots 37 extending from the crosspiece 34 to the front edge of the uprights
20 24, and the outer of the frames may have thereon comparatively thick paneling 38 and also end pieces 39 for the seat which preferably extend beyond the frame of the seat. The front lower portion 40 of the
25 seat end pieces 39 preferably extends forwardly of and at right angles to the rear portion 41 of said end pieces.

Curved strips 42, preferably of galvanized sheet iron, may be fitted over the top
30 ends of the paneling 38 and 36 and extend between and be suitably affixed to the crosspieces 34 and 28. A strip 43, preferably of galvanized sheet iron, may be arranged intermediate of the strips 42 and formed with
35 a groove 44 in the top thereof and with channels 45 in the plane of channels 46 on the strips 42, and suitable wire screens 47 may be arranged with the end portions thereof disposed in the channels 45 and 46.
40 In the recess 29 may be mounted a suitable roll curtain 48 adapted to be drawn over the screens 47 by a cord 49 attached to the curtain and arranged in the groove 44 and extending over the pulley 50 and through the
45 openings 51 in the panels 35 and having its end secured to a ring 52 for pulling the cord.

Shafts 53 may be mounted in the bearings 18 and have pivotally mounted thereon
50 the sectoral frames 54 preferably of T-iron having suitably affixed thereon the arc-shaped plate 55, preferably of galvanized metal, which extends movably through the arc-shaped slots in the paneling 36 of the
55 inner of the double end walls and it may have affixed on the underside thereof paneling 55' by means of curved strips or molding 56 adjacent to the inner surface of the paneling 36, and strips or molding 57 and
60 58 extending between the strips or molding 56 on the front and rear ends of the plate. When the plate 55 is moved to have the strip 58 on its rear end in contact with the crosspiece 34, the front end of the plate 55 is
65 disposed under the crosspiece 28 in such

manner that rainwater runs off of the crosspiece 28, the plate 55 and the crosspiece 34 and cannot reach the space within the covering for the bed. Panels 59 may be suitably fitted in the frames 54, which panels
70 are adapted to overlap the front and rear portions 40 and 41 of the end pieces 39 of the seat when the plate 55 is moved forwardly to the position shown in Fig. 5 and thereby is avoided any opening for drafts
75 of air between the end pieces 39 and the plate 55. To the frames 54 may be connected the arms 60 having adjustably mounted thereon suitable counterweights 61 to facilitate moving the panels 59 and plate 55.
80 Facing strips 62 may be suitably affixed on the front edge of the uprights 24, on the top edge of the crosspieces 26, and on the front edge of the uprights 25, which give a neat appearance and serve as abutments for
85 the sections of the foldable seat.

The seat back 33 consists of sections 63 and 65 which may have suitable panels 64 therein and may be connected together by
90 hinges 66 on the rear thereof to permit folding them together. The section 63 may be connected with the portion 31 of the crosspiece 28 by means of suitable concealed hinges 67.

In order to facilitate raising and lowering
95 the sections 63 and 65 and to hold them in adjusted position, the section 65 may have suitably affixed on the rear thereof the grooved knuckle plates 68 to which are connected by means of pivots 69 one end of the
100 links 70, the other end of the links 70 being pivotally connected with U-shaped links 71 having the crossportions 72 thereof provided with inclined faces 72' with which the links 70 are adapted to engage. As seen
105 more clearly in Fig. 5 the links 71 are angularly connected with the arms 73 which latter are mounted on sleeves 74 on the shafts 53 and have thereon counterweights 75.

In order to prevent increase of the angle
110 between the links 70 and the section 65 and thereby restrict the forward swing of the section as it is moved, links 76 may have one end thereof pivotally connected with the knuckle plates 68 and have the other end
115 thereof movably connected with the links 70; stops 77 on the links 70 being adapted to limit upward movement of the links 76 on the links 70. It will be seen that the counterweights 75 are operatively connect-
120 ed with the folding sections 63 and 65 in such manner that they and the sections are substantially in equipoise while raising or lowering of the sections is being effected, and they also are adapted to act to hold the
125 sections when the latter are folded or adjusted in raised or lowered position.

The forward portion of the seat may have thereon the sections 80 and 81 connected together by concealed hinges 84 and adapted
130

to rest on the horizontal portion of the seat, and also the sections 82 and 83 adapted to rest against the front vertical portion of the seat. The lower section 83 may be suitably secured to the bed 11 and is connected with the section 82 by suitable concealed hinges 84. The section 81 may project forwardly beyond the top edge of the section 82 and these sections may be connected by suitable hinges 85 on their inner faces.

In the space between the end frames at each side of the seat may be arranged devices 86 adapted to facilitate raising and lowering of the folding sections 80, 81 and 82 and to sustain them in lowered position where they are folded together on the section 83. As seen in Figs. 3 and 5, bracket arms 87 may be suitably secured to the section 83 and have thereon pivots 88 on which are mounted arms 89 having one end thereof mounted on pivots 90 suitably arranged on the inner face of the section 81, and having on the outer end thereof suitable counterweights 91.

In the construction shown in Figs. 6 and 7 the devices 86 consist of bracket arms 92 suitably secured to the section 83 and having thereon pivots 93 on which are mounted the end portions of links 94 having thereon shoulders 95, the other end of the links 94 being mounted on pivots 96 suitably affixed on the inner face of section 81. Arms 97 may have one end thereof mounted on the pivots 93 and have adjustably mounted on the other end thereof the counterweights 98. Springs 99 connected between the links 94 and the arms 97 are adapted to prevent the shoulders 95 making sudden engagement with or disengagement from the arms 97, whereby any disagreeable jar is avoided while the sections 80, 81 and 82 are being raised or lowered. The sections 80 and 65 may be tied together by means of parts 100 which are adapted to be affixed on the lower end of the section 65 in an obvious manner and have thereon pins 101 adapted to fit through rings 102 affixed in sockets 103 in the section 80, and the section 80 may also be tied to the inner faces of the forward end portion of the seat by means of pins 104 suitably affixed on the faces and adapted to fit in sockets 105 in the section 80.

It will be understood that the combined seat and covering for the bed 11 may be easily arranged to extend through a suitable opening in the wall 106 of a building to have the rear portion of the combined seat and covering disposed on the exterior of the building and to have the forward portion disposed on the interior of the building; also it will be noted that the frames of the end walls of the covering are separated by the projections 19 of casting 17 from the frames of the end pieces of the seat, whereby the latter frames are not affected by expansion

or contraction occurring in the former frames when these are subject to temperature different from that to which the latter frames may be subject.

While forms of construction embodying the invention have been particularly illustrated and described, there are many changes and modifications thereof that will readily occur to those skilled in the art, wherefore, the right is reserved to all such changes and modifications as do not depart from the spirit and scope of the invention as defined in the appended claims.

I claim:

1. In a combined seat and covering for a bed, the combination of sills, castings on the sills, said castings formed to provide bearings and projections adapted to extend beyond the sides of the sills, double end walls including uprights secured to the sills and abutting against said projections, a cross piece between the upper part of the end walls, a foldable seat comprising a back portion hingedly connected with the cross-piece and a front portion detachable from the back portion and hingedly connected with the bed, shafts mounted on said bearings, an arc-shaped plate extending through the inner of the end walls and movably mounted on the shafts, devices mounted on the shafts and operatively connected with the foldable back portion of the seat and adapted to counterbalance the same when it is raised or lowered and to hold it in adjusted position, and devices adapted to counterbalance and thereby facilitate raising and lowering the foldable forward portion of the seat.

2. In a combined seat and covering for a bed, the combination of double end walls, a crosspiece between the upper part of the end walls, a seat with a foldable back portion having the upper end thereof hingedly connected with the crosspiece, and with a foldable forward portion having the lower end thereof connected with the bed, pivotally mounted devices arranged in the space between the double end walls and operatively connected with the foldable back portion of the seat and adapted to facilitate raising and lowering the same and holding it in adjusted position, and devices arranged between the double end walls and adapted to facilitate raising and lowering the foldable forward portion of the seat.

3. In a combined seat and covering for a bed, the combination of sills, castings on the sills, said castings formed to provide bearings and projections adapted to extend beyond the sides of the sills, double end walls including uprights secured to the sills and abutting against said projections, a crosspiece between the upper part of the end walls, a foldable seat hingedly connected with the crosspiece and with the bed,

shafts mounted in said bearings, an arc-shaped plate extending through the inner of the end walls and movably mounted on the shafts, counterbalancing devices mounted on the shafts and operatively connected with the foldable back portion of the seat to facilitate raising and lowering the same and holding it in adjusted position, counterbalancing devices adapted to facilitate raising and lowering the foldable forward portion of the seat, and means adapted to tie the forward portion of the seat to the back portion of the seat.

4. In a combined seat and covering for a bed, the combination of sills, castings on the sills, said castings formed to provide bearings and projections adapted to extend beyond the sides of the sills, double end walls including uprights secured to the sills and abutting against said projections, a crosspiece between the upper part of the end walls, a foldable seat hingedly connected with the crosspiece and with the bed, shafts mounted in said bearings, an arc-shaped plate extending through the inner of the end walls and movably mounted on the shafts, counterbalancing devices mounted on the shafts and operatively connected with the foldable back portion of the seat to facilitate raising and lowering the same and holding it in adjusted position, counterbalancing devices adapted to facilitate raising and lowering the foldable forward portion of the seat, means adapted to tie the forward portion of the seat to the back portion of the seat, and means adapted to tie the forward portion of the seat to the end walls of said seat.

5. In a combined seat and covering for a bed, the combination of double end walls, a crosspiece arranged between the upper part of the end walls, a second crosspiece arranged between the end walls below and to the rear of the first crosspiece, curved strips of sheet metal fitted on the top end of the double end walls between the first and sec-

ond crosspiece, said strips provided with channels therein, a curved metallic strip arranged intermediate of said strips and provided with channels in the plane of the channels of said strips, and screens having one end portion thereof disposed in the channels of the strips on the double end walls and the other end portion thereof disposed in the channels of the curved metallic strip.

6. In a combined seat and covering for a bed, the combination of a crosspiece, seat sections hingedly connected with each other and with the crosspiece, a grooved knuckleplate affixed on one of said sections, a shaft, an arm pivotally mounted on the shaft, a counterweight on the arm, a U-shaped link connected to the arm and provided with an inclined face on the crossportion thereof, and a link pivotally connected with the knuckleplate and with the U-shaped link and adapted to engage with said inclined face as set forth.

7. In a combined seat and covering for a bed, the combination of a crosspiece, seat sections hingedly connected with each other and with the crosspiece, a grooved knuckleplate affixed on one of the sections, a shaft, an arm pivotally mounted on the shaft, a counterweight on the arm, a link pivotally connected with the knuckle plate and angularly connected with the arm, a link pivotally connected with the knuckle plate and movably connected with the first link, and a stop on the first link to limit upward movement of the second link on the first link, substantially as described.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses at Los Angeles, county of Los Angeles, State of California, this 15th day of July A. D. 1912.

NORMAN D. BISHOP.

Witnesses:

ANNA B. DESSAU,
ALEX. H. LIDDERS.