

No. 706,178.

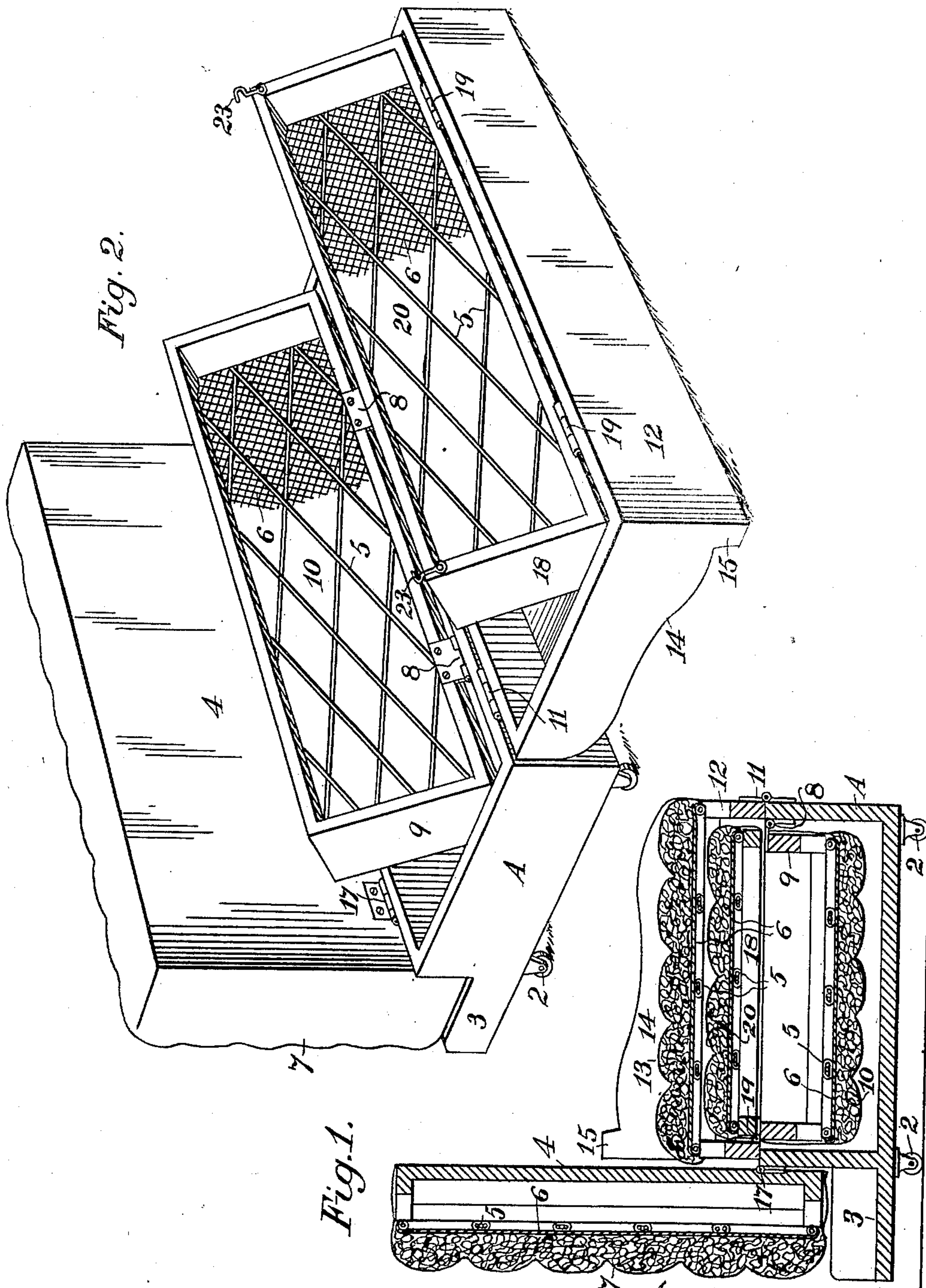
Patented Aug. 5, 1902.

J. HOEY.
EXTENSION BED COUCH.

(Application filed Apr. 28, 1902.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses,
Ed. Brandau,
J. H. Hume

Inventor,
John Hoey,
Dewey Strong & Co.
attys

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2 Sheets—Sheet 2.

Fig. 3.

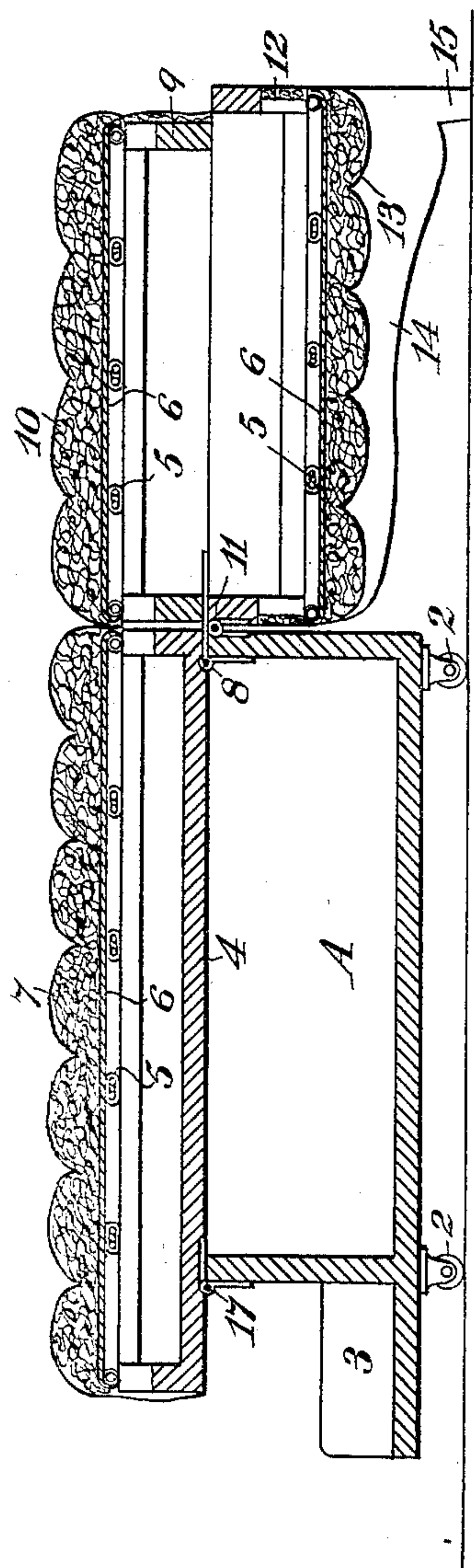
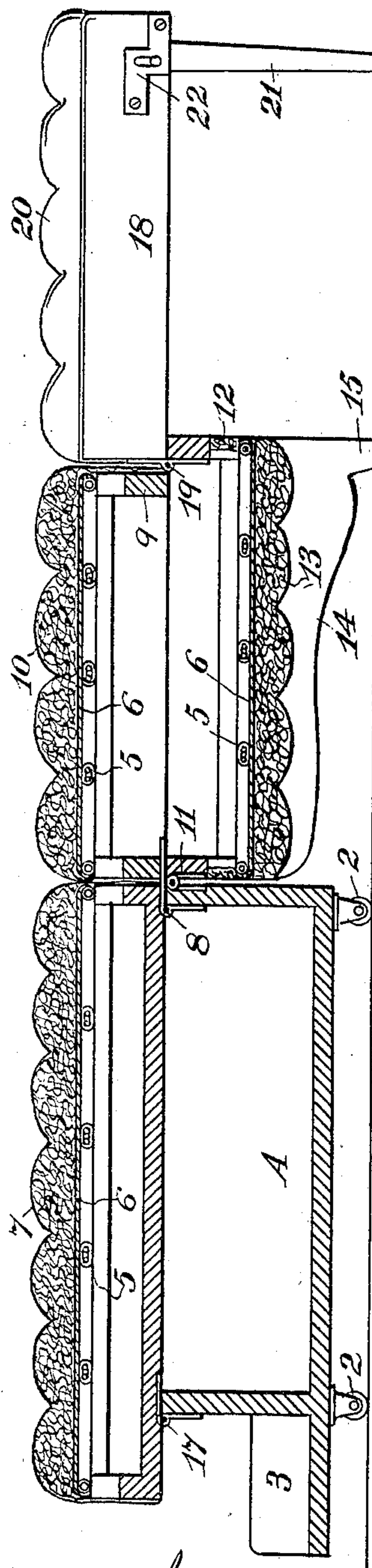


Fig. 4.



Witnesses,
E. A. Brandau
J. H. Morse

Inventor,
J. Hoey
Dewey Strong & Co.
Attys

UNITED STATES PATENT OFFICE.

JOHN HOEY, OF SAN FRANCISCO, CALIFORNIA.

EXTENSION BED-COUCH.

SPECIFICATION forming part of Letters Patent No. 706,178, dated August 5, 1902.

Application filed April 28, 1902. Serial No. 104,947. (No model.)

To all whom it may concern:

Be it known that I, JOHN HOEY, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Extension Bed-Couches; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to a couch composed of hinged foldable sections with upholstering so disposed that when folded the apparatus may be used as a davenport, divan, chair, or like structure, and when unfolded and extended it becomes a bed or couch.

The invention consists of the parts and the constructions, arrangements, and combinations of parts, which I will hereinafter describe and claim.

Figure 1 shows the device closed and forming a davenport. Fig. 2 is a perspective view showing the relative position of the sections partly unfolded. Fig. 3 shows it extended so that two sections form the bed. Fig. 4 shows the device unfolded to form a bed of three sections, the length of which is at right angles with the length of unfoldment.

As shown in the accompanying drawings, A is a body having the desired length and width to form a chair or seat, sofa, davenport, or equivalent structure. This body may be mounted upon casters, as at 2, to make it easily movable, and I have here shown it with a rear extension of the lower portion, as at 3. To the rear upper edge of the body is hinged the part 4, which is designed to form the back of the chair, davenport, or other structure, and this part may either be made solid or it may be upholstered, as may be desired. In the present case I have shown it as a solid back. The ends of this back are built up outwardly and form supports to which elastic wire cables 5 are secured, and over these cables a woven-wire-mattress section, as 6, is attached, and this is finally covered by an upholstered suitably-constructed mattress, as 7. This portion of the back is normally concealed when the device is in position to be used as a seat and is only exposed when this back portion has been folded down about its hinges to rest upon the upper edges of the body A.

To the front of the box A are attached

hinges 8, which carry a section 9, having considerable depth, and an upholstered surface 10 upon a cable and wire-mattress support similar to that previously described as formed at 5, 6, and 7. The box 9 is hinged to the inner front edge of A, and when folded in to the body A its upholstered portion 10 lies adjacent to the bottom of the body A, leaving its then upper part in the form of an open box, of which the upholstery and wire mattress are the bottom. This box serves to contain bed-clothing and the like which are to be disposed of during the day.

To the outer edge of the front of A are fixed the hinges 11, and these carry the portion 12, which forms the seat when the device is in its normal position. This part 12 is upholstered, as shown at 13, in a manner similar to that described for the back and the section 9, and it has arms of any ornamental finish at each end, as at 14.

When the device is used for a seat, the part 9 is folded into the body A, the part 12 closed down over the part 9, with its upholstered surface 13 forming the seat, and the arms 14 may be of any desired ornamentation, and when in this position these arms extending up against the back 4 serve to retain it in its vertical position. If it is desired to use the device as a bed having its longest dimension in the same direction as the length of the sofa or structure from which it is developed, the portion 12 is first opened outwardly, and projections 15, formed upon the rear and highest portion of the arms 14, rest upon the floor and serve when thus unfolded as supports for the outer edge. The inner edge is supported by its hinged connection with the part A, as shown at 11. The part 9 is then unfolded about its hinges and rests upon the bottom of the unfolded part 12. The back 4 is then turned down about its hinges 17, and its upholstered surface 7 then stands in line with the upholstered surface 10 of this part 9. The edges of the two are close together, and by reason of the woodwork of the longer side being cut away and the stretching of the spiral cables and the wire-mattress material between the ends there will be no hard edges at the junction of the upholstery 7 and 10, but all will be equally yielding. The outer edges are in like manner yielding, and the whole forms a

comfortable and convenient couch or bed. When the structure is to be formed into a bed having its greatest length at right angles with the length of the seat, as it would be when developed from a chair or similar short seat, the part 12 has a section 18 hinged to it, as shown at 19, so as to be foldable into the part 12. When thus folded into the part 12, the upholstered surface 20, which is built upon a woven-wire and elastic-cable fabric, lies closely in contact with the upholstered surface 13 of the part 12, and this is the condition of the seat portion of the structure when in the form of a seat—that is, the upholstery 13 of the part 12 and its wire-supporting fabric rest directly upon the upholstery 20 of the part 18 and its wire-supporting fabric, the lower one thus reinforcing the upper one and making a very strong and elastic seat. The hinge 19, by which the part 18 is connected with the part 12, is at the rear and inside of the part 12 when the latter is in a position to form a seat; but when the part 12 has been unfolded, so that the lug 15 rests upon the floor, the part 9 still remains folded into the box 4, and the part 18, which lies within the part 12, having its hinges transferred to the front by the opening and reversal of the part 12, may then be opened about its hinges 19, so that it forms an extension outwardly from the seat in the same direction in which 12 was unfolded, and its upholstered surface which had been previously folded into the part 12 is then brought to the top, as plainly shown in Fig. 3. In order to support the front edge of this part of the structure, I have shown a folding leg, as at 21, slidable and turnable in a slotted bracket 22, which forms no part of my present invention, but is employed, as is here shown, to illustrate one of many forms of folding legs which may be applied at this point. This portion 20 having thus been opened, the part 9 is then opened out of the box A, turning about its hinges 8, and its outer edge then lies close against the inner edge of the part 18, forming practically a continuation therewith. Finally, the back portion 4 is turned down about its hinges, and its front edge closely meets the edge of the portion 9, the upholstery which had previously been concealed at the back of the part 4 then lying in line with the upholstery 10 and 20 of the two sections 9 and 18. The bed is thus completed having a length transverse to the seat or body portion and equal in length to the combined widths of the back and the two sections 9 and 18 and a width equal to whatever the length of the seat may be. This supplemental portion 18 may form a part of the structure where used as a bed in the first or second forms herein described; but, if desired, it may be omitted from the part 9 when only the parts 4 and 9 are employed to form a bed, as shown in Fig. 2. In closing up the device to again form a seat the part 4 is first turned up into its vertical position, forming the back of the device. The

part 9 is then folded back into the box A, and having its upholstered surface on the part which is then the lowest and which practically rests on or close to the bottom of the box A this portion serves to receive the bed-clothing. The part 18 is then folded about its hinges 19 into the part 12 and may be secured in that position by a hook or hooks, as at 23, which are adapted to engage with corresponding eyes upon the part 12. The part 12 is then finally folded over the part 9 and the body portion A, and the device is restored to its condition as a seat. The rear of the arm-sections 14 lying closely against the back 4 serve to hold it in position and prevent it from being tilted forward, and when the device is thus closed the space formed beneath the upholstered portion 20 of the section 18 is coincident with the space formed in the part 9, thus providing a large accommodation for bedclothing and the like.

I have here described the seat portion as having arms and an upholstered elastic surface; but, if desired, in some forms the seat may be a plain hard surface and the arms 14 may also be omitted. In such a construction the supports 15 would be in the form of legs when the seat is opened out, and when closed they would lie closely against the back and support it in its vertical position.

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

1. The combination in a convertible seat and couch of a body portion, a back hinged to the rear to stand vertically or to be folded down horizontally upon the body portion, a section hinged to the front of the body and foldable therein and capable of being unfolded and extended outwardly from the front edge of the body, and a seat-section also hinged to the front edge of the body closable over the first-named section when folded into the body, said seat-section forming when unfolded a support for the inner upholstered section and having lugs or supports upon its outer edge to rest upon the floor.

2. The combination in a convertible seat and couch of a hollow body portion, a section hinged to the front thereof so as to fold into the body or to be opened outwardly therefrom and having the side which forms the bottom when folded in composed of woven wire and cable-supports and an upholstered surface, a seat portion also hinged to the front and capable of being opened outwardly with its outer edge supported upon the floor or closed over the first-named section, said seat portion having its upper surface when closed formed of woven-wire supporting-cables and upholstery, and a back hinged to the rear of the body portion and normally supported in a vertical position when the seat portion is closed, said back having its rear portion upholstered and when the seat and inner section have been opened said back is turned down to rest upon the body portion

with its upholstered back forming a continuation in the same plane with that of the unfolded inner section.

3. The combination in a convertible seat
5 and couch of a body portion having a back
hinged to its rear, said back having the rear
portion upholstered to form the portion of a
couch and turnable about its hinges so that
it may rest upon the top of the body portion,
10 a seat portion hinged to the front of the body
having its upper surface, when closed, upholstered and arms which serve to support
the back in its vertical position, said arms
resting upon the floor and forming a support
15 for the outer edge of the seat when unfolded,
a couch-section hinged and foldable within
the seat-section having an upholstered surface which forms the top when it is opened
out from the seat-section and foldable legs
20 by which its outer edge is supported, and a
section hinged to the front edge of the body
portion of the seat foldable therein and having
an upholstered surface, said section being
turnable about its hinges to open outwardly
25 and rest upon the bottom of the inverted
seat-section forming a continuation of the
previously-opened section and intermediate
between it and the upholstered surface of
the back when the latter has been turned
30 down into a horizontal position.

4. The combination in a convertible seat
and couch of a hollow box or body portion
having a seat-section hinged to its front adapted
to open outwardly and having arms which
35 support the outer edge when thus opened,
said section having an upholstered seat-surface
upon its upper side when in closed position,
a second section hinged to the front of
the body portion and foldable therein, said
40 section having the side which is lowest when

folded upholstered upon woven-wire and cable-supporting surface and adapted to be
opened outwardly about its hinges to rest
upon the inverted seat-section when opened
and a back adapted to stand vertically when
45 used as a seat and to be supported by the arms
of the seat portion, said back having its rear
portion upholstered and foldable to rest upon
the body portion after the seat and inner section
have been turned outwardly whereby the
50 upholstered surface of the back and that of
the inner folded section are brought into the
same plane and their meeting contiguous
edges forming an essentially continuous elastic
couch-surface. 55

5. The combination in a convertible seat
and couch, of a hollow body, a hollow section
hinged to the front edge and having one side
formed of elastic wire cables, a woven-wire
fabric, and an upholstered surface thereon, 60
said surface forming the bottom of the open
section when folded into the body and the
top when opened out, a hollow seat-section,
hinged to the front of the body having a similarly-constructed seat-surface when closed, 65
said section when opened outwardly, forming
a support for the outwardly-opened interior
section, and a back section hinged to the rear
of the body, having its rear surface upholstered
and turnable about its hinges after the 70
seat and interior sections have been opened,
so that it lies horizontally and its upholstered
rear surface lies in plane with and contiguous
to that of the interior section.

In witness whereof I have hereunto set my
hand. 75

JOHN HOEY.

Witnesses:

S. H. NOURSE,

JESSIE C. BRODIE.