

J. MORAN.
COMBINATION ARTICLE OF FURNITURE.

APPLICATION FILED FEB. 15, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

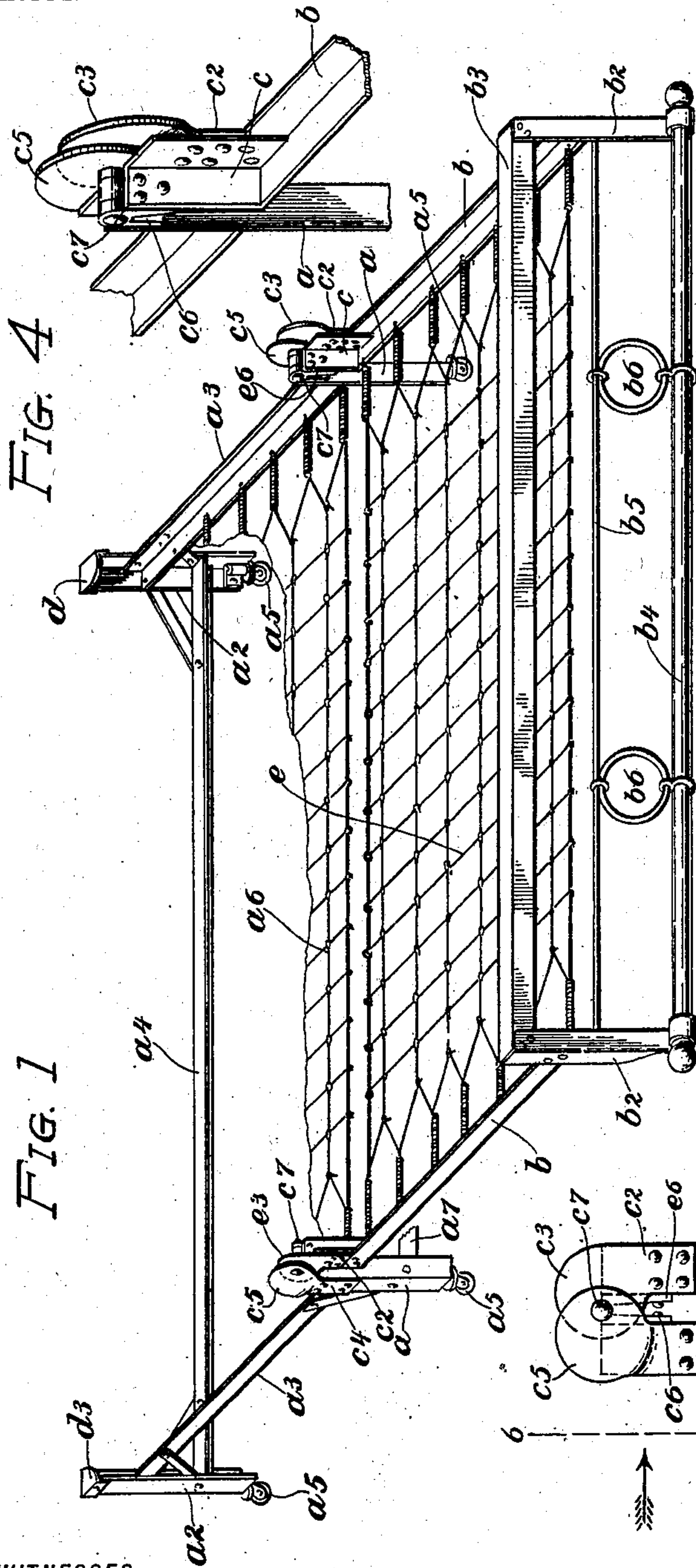


FIG. 4

FIG. 1

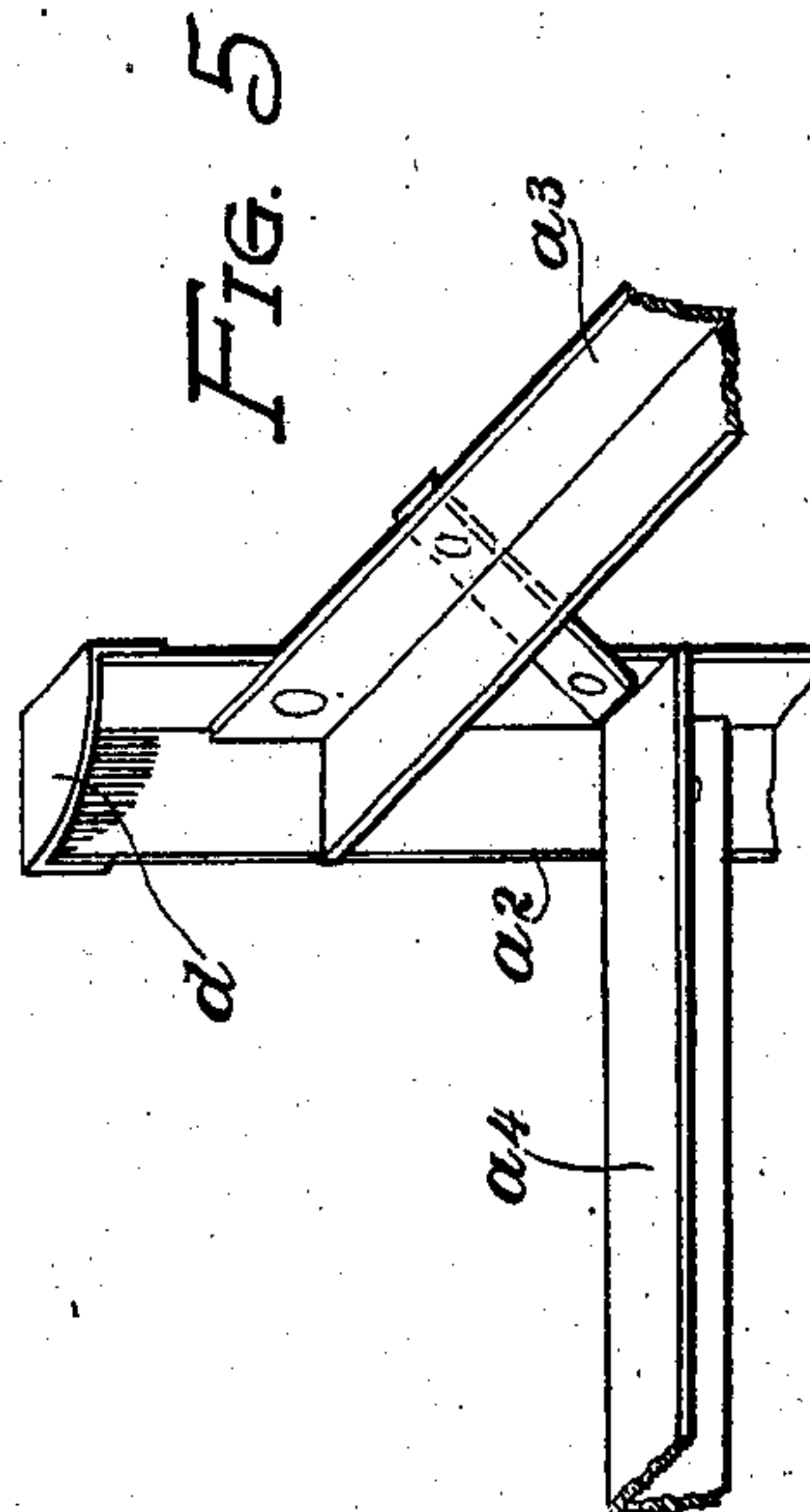


FIG. 5

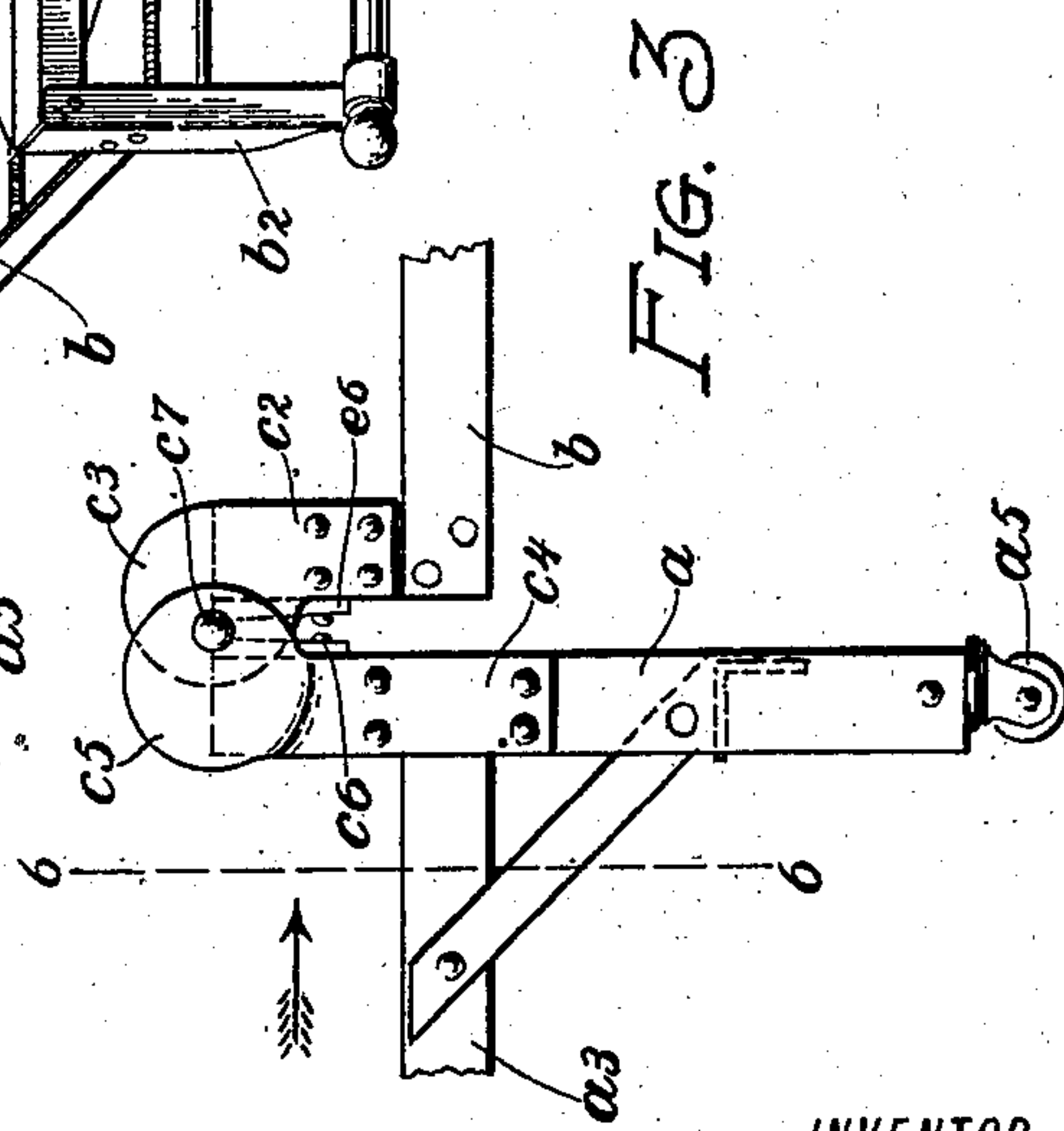


FIG. 3

WITNESSES

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No. 721,593.

PATENTED FEB. 24, 1903.

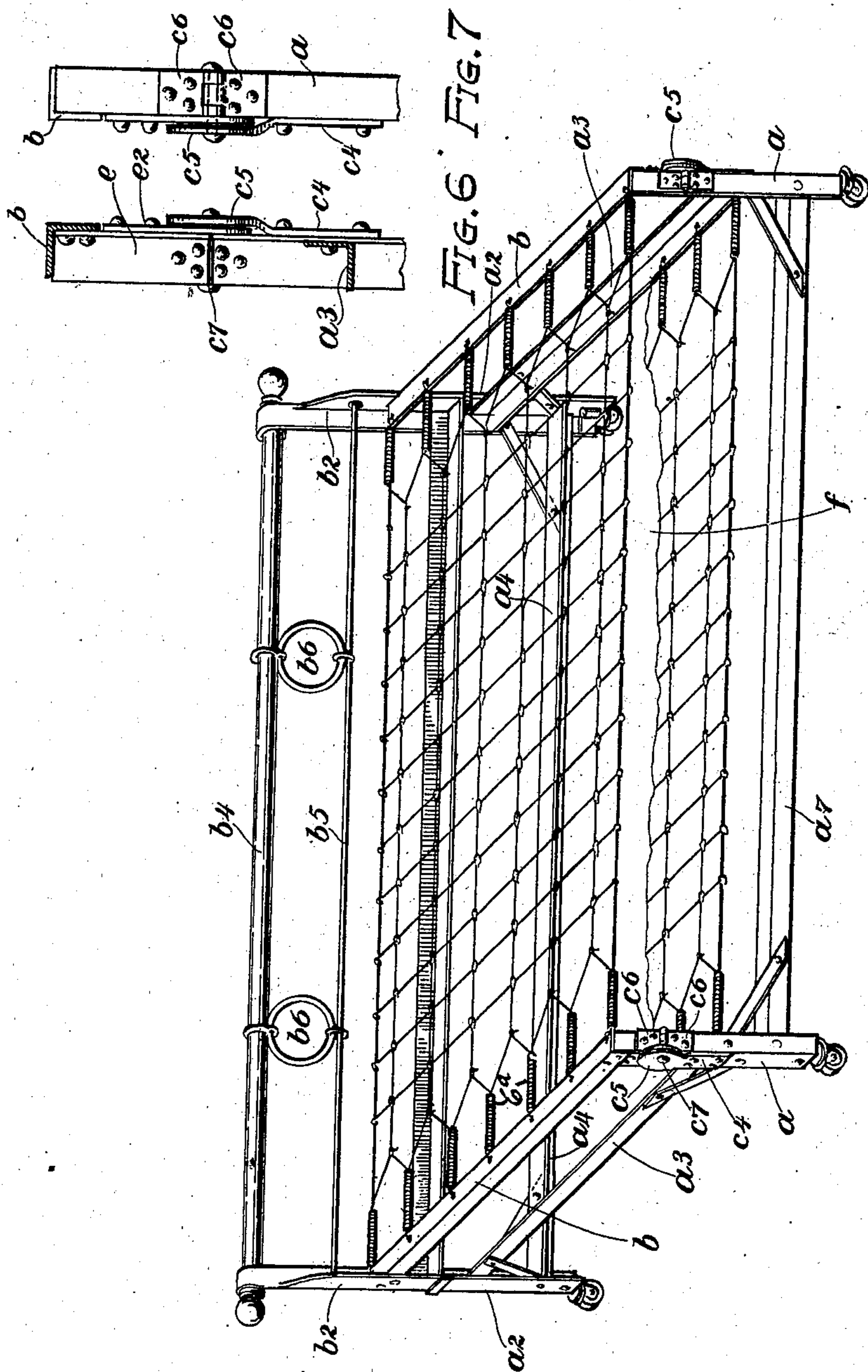
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2 SHEETS—SHEET 2.



WITNESSES

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JAMES MORAN, OF NEW YORK, N. Y.

COMBINATION ARTICLE OF FURNITURE.

SPECIFICATION forming part of Letters Patent No. 721,593, dated February 24, 1903.

Application filed February 15, 1902. Serial No. 94,161. (No model.)

To all whom it may concern:

Be it known that I, JAMES MORAN, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Combination Articles of Furniture, of which the following is a full and complete specification, such as will enable those skilled in the art to which it ap-
10 pertains to make and use the same.

The object of this invention is to provide a combination article of furniture consisting of separate parts hinged together, and which may be folded so as to serve as a couch or
15 lounge or extended so as to serve as a bed; and with these and other objects in view the invention consists in a combination article of furniture constructed as hereinafter described and claimed.

20 In the drawings forming part of this specification, in which the separate parts of my improvement are designated by the same reference characters in each of the views, Figure 1 is a perspective view of my improved
25 combination article of furniture when used as a bed; Fig. 2, a similar view showing the parts folded together, as when used as a couch or lounge; Fig. 3, a side view of a hinge at one end of the device, whereby the separate
30 parts are connected; Fig. 4, a perspective inside view of said hinge; Fig. 5, a perspective inside view of one corner of the main frame of the device; Fig. 6, a section on the line 6 6 of Fig. 3, but showing the parts in
35 the position shown in Fig. 2; and Fig. 7 a front view of said parts in the same position as in Fig. 6.

In the practice of my invention I provide a main frame comprising two front corner-
40 legs a and two rear corner-legs a^2 , and said front corner-legs and rear corner-legs are connected at each end by end bars a^3 , which consist of angle-irons and which are securely riveted to the corner-posts below the tops
45 thereof, and the rear corner-posts a^2 are also connected by a horizontal rear side bar a^4 , and the end bars a^3 are connected with the rear corner-posts at a point above the point where the rear side bar a^4 is connected there-
50 with, and all of said corner-posts are provided with casters or rollers a^5 , and said main frame is also provided with a horizontal front

bar a^7 , which connects the front legs a below the end bars a^3 and below the tops of the posts and with a bed-spring a^6 , which is se- 55 cured only to the end bars a^3 and which is above the side bars a^4 and a^7 , and said bed-spring a^6 is secured to said end bars by means of strong spiral springs 6^a , as clearly shown. I also provide a supplemental frame which is 60 exactly the same in length and breadth as the main frame and which comprises two parallel end bars b , which are also composed of angle-iron, and two front corner-posts b^2 , which are connected at one end by a hori- 65 zontal bar b^3 , composed of angle-iron, and at the opposite end by a horizontal rod or bar b^4 , and midway thereof by a supplemental rod or bar b^5 , and said rods or bars b^4 and b^5 are connected by intermediate devices b^6 of 70 any desired form or construction.

The ends of the end bars b of the supplemental frame are hinged to the front corner-
posts a of the main frame, as shown in the drawings, and for this purpose I secure to the 75 ends of said end bars b of the supplemental frame angle-irons c , to which are riveted plates c^2 , having circular members or top members c^3 , and to the upper ends of the front leg members a of the main frame I se- 80 cure a plate c^4 , having a circular head c^5 , and to the adjacent sides of the angle-irons c and the upper end of the leg members a of the main frame I secure a plate c^4 , having a cir- 85 cular head or top member c^5 , and to the adjacent sides of the angle-irons c and the upper end of the leg members a of the main frame, when the parts are in the position shown in Fig. 1, I secure hinge members c^6 , through 90 which is passed a hinge-pin c^7 , which is also passed through the circular heads or top members c^3 and c^5 of the plates c^2 and c^4 , which are secured, respectively, to the end bar b of the supplemental frame and to the 95 top of the leg members a of the main frame, and the hinges at the opposite ends of said frame are exactly of the same construction, and the ends of the hinge-pins c^7 are riveted, so as to securely hold the parts through which 100 they pass, and the hinges thus formed retain the supplemental frame in proper relative position with reference to the main frame at all times and in any desired position of said frames.

The rear end corner-posts a^2 of the main frame are provided each with a top plate d , and when the supplemental frame is in the position shown in Fig. 2 the bar b^2 rests 5 squarely on the tops of the said end posts a^3 , and the hinges by which the separate frames are connected are so made as to prevent any lateral movement of the supplemental frame and also retain said supplemental frame in 10 proper position when the device is used as a couch or lounge, as shown in Fig. 2.

When the device is used as a couch or lounge, the rods b^4 and b^5 form the back of said couch or lounge, as is clearly shown in 15 Fig. 2, and when the said device is used as a bed, as shown in Fig. 1, the said rod b^4 and the legs b^2 hold the supplemental frame in proper relative position with reference to the main frame, and said supplemental frame is 20 also provided with a bed-spring e , which may be of any desired construction. As thus made it will be seen that when the supplemental frame is extended, as shown in Fig. 1, so as to use the device as a bed, there are 25 no central longitudinal bars or rods between the springs of the separate parts, and there is also no horizontal bar at the back of the main frame in the same plane with the springs; but at the front of the supplemental 30 frame there is a horizontal rod or bar b^3 , which does not interfere with the operation of the device as a bed, but rather facilitates such operation.

When the parts are in the position shown 35 in Fig. 2, in which position the device is designed for use as a couch or lounge, there is a free and open space f between the springs of the separate parts, which may be used as a place to store mattresses, bedclothing, pil- 40 lows, and other articles of this class, and it will be understood that the air at all times has free access to said articles, and perfect ventilation thereof is therefore provided, and it will also be understood that in either posi- 45 tion of the separate parts of my improved combination article of furniture the mattresses employed may be of any desired construction, and the back of the supplemental frame formed by the rods b^4 and b^5 , as shown 50 in the drawings, may also be of any preferred construction and may be upholstered, if desired.

My improved combination article of furniture is simple in construction and operation 55 and perfectly adapted to accomplish the result for which it is intended, and changes therein and modifications thereof may be made without departing from the spirit of my invention or sacrificing its advantages, and 60 I reserve the right to make all such alterations therein as fairly come within the scope of my invention.

It will be observed that the height of the bed when the device or article is used as 65 shown in Fig. 1 will depend upon the length of the legs a , a^2 , and b^2 below the bars a^3 and b , and this height may be regulated as de-

sired, and the height of the device when used as a couch or lounge will depend upon the total length of said legs or upon the height 70 thereof above the bars a^3 and b added to the length of said legs below said bars.

It will be observed that when the parts are in the position shown in Fig. 1 the end bars 75 b of the supplemental frame are in line with the end bars of the main frame, and the springs a^6 and e of said frames are in the same horizontal plane, and when the parts are folded together, as shown in Fig. 2, there is a con- 80 siderable space between the springs. The spring e of the supplemental frame, like the spring a^6 of the main frame, is secured only at the ends thereof or by means of the end bars b , this connection being made by means of spiral springs 6^a , and as thus constructed 85 the springs a^6 and e have no side supports, the necessary rigidity and strength being obtained by the construction of the spring and its connections with the end bars a^3 and b of the main and supplemental frames. By 90 reason of this fact it is absolutely necessary to provide a hinge, such as that herein described, and shown in detail in Figs. 3 and 4 and in use in Figs. 1 and 2 for connect- 95 ing the main and supplemental frames, as no ordinary hinge would be sufficient, the strain on the end bars a^3 and b of the main and supplemental frames being very great owing to the tension of the spiral springs 6^a , 100 by means of which the bed-springs a^6 and e are secured to the end bars of the frames. It will also be observed that when the parts are in the position shown in Fig. 2 the end bars b of the supplemental frame and the 105 spring e constitute a body for the framework, on which a mattress or upholstery construction may be maintained; but when the parts are in the position shown in Fig. 1 there is no side bar at the back of the main frame ex- 110 cept the bar a^4 , which is below the spring a^6 , the front bar of the supplemental frame being provided with the bar b^3 , which in this construction has no particular function ex- 115 cept to give strength and stability to this part, and the connection of the end bars b of the supplemental frame with the corner-posts b^2 may be midway thereof when said frame is in the position shown in Fig. 1, and the employment of the angle-irons or other con- 120 nections c at the opposite ends of said end bars b are essential in this form of construction. It will also be observed that the hinged plate c^3 at one end of the frames is on the out- 125 side of the hinged plate c^5 , while at the other end of said frame it is on the inner side of said plate c^5 , this arrangement being necessary in order to provide for the proper length and correct fit of the frames.

Having thus fully described my invention, what I claim as new, and desire to secure by 130 Letters Patent, is—

1. A combination article of furniture of the class described, comprising a main frame com- posed of two front corner-legs and two rear

corner-legs, end bars secured to said legs and below the top of said legs, a horizontal side bar secured to rear corner-legs below said end bars; a bed-spring secured to said end bars, and a supplemental frame composed of parallel end bars provided with angle-pieces at one end which project above said end bars and are hinged to the tops of the front corner-legs of the main frame, a bed-spring secured to the end bars of the supplemental frame, said supplemental frame being adapted to be folded over the main frame in which position the end bars of the two frames and the bed-springs therein are separated by an intermediate space adapted to receive bed-clothing, and legs secured to the opposite ends of the end bars of the supplemental frame and adapted to support said frame when extended, substantially as shown and described.

2. A combination article of furniture of the class described comprising a main frame composed of two front corner-legs and two rear corner-legs, and bars secured to said legs at each end and below the tops of said legs, a horizontal side bar secured to the rear corner-legs below said end bars, a bed-spring secured to said end bars, and a supplemental frame composed of parallel end bars provided with

angle-pieces at one end which are hinged to the tops of the front corner-legs of the main frame, legs secured to the opposite ends of the end bars of the supplemental frame, a bed-spring secured to the end bars of the supplemental frame, said supplemental frame being adapted to be folded over the main frame and means whereby the supplemental frame when extended will be supported at its front or free edge, the hinges by which the supplemental frame is connected with the main frame being composed of plates secured to the angle-irons at the ends of the end bars of the supplemental frame, similar plates secured to the corresponding corner-posts of the main frame, hinge members secured to each of said plates and a pivot or hinge-pin passed through said hinge members and through said plates, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 8th day of January, 1902.

JAMES MORAN.

Witnesses:

F. A. STEWART,
F. F. TELLER.