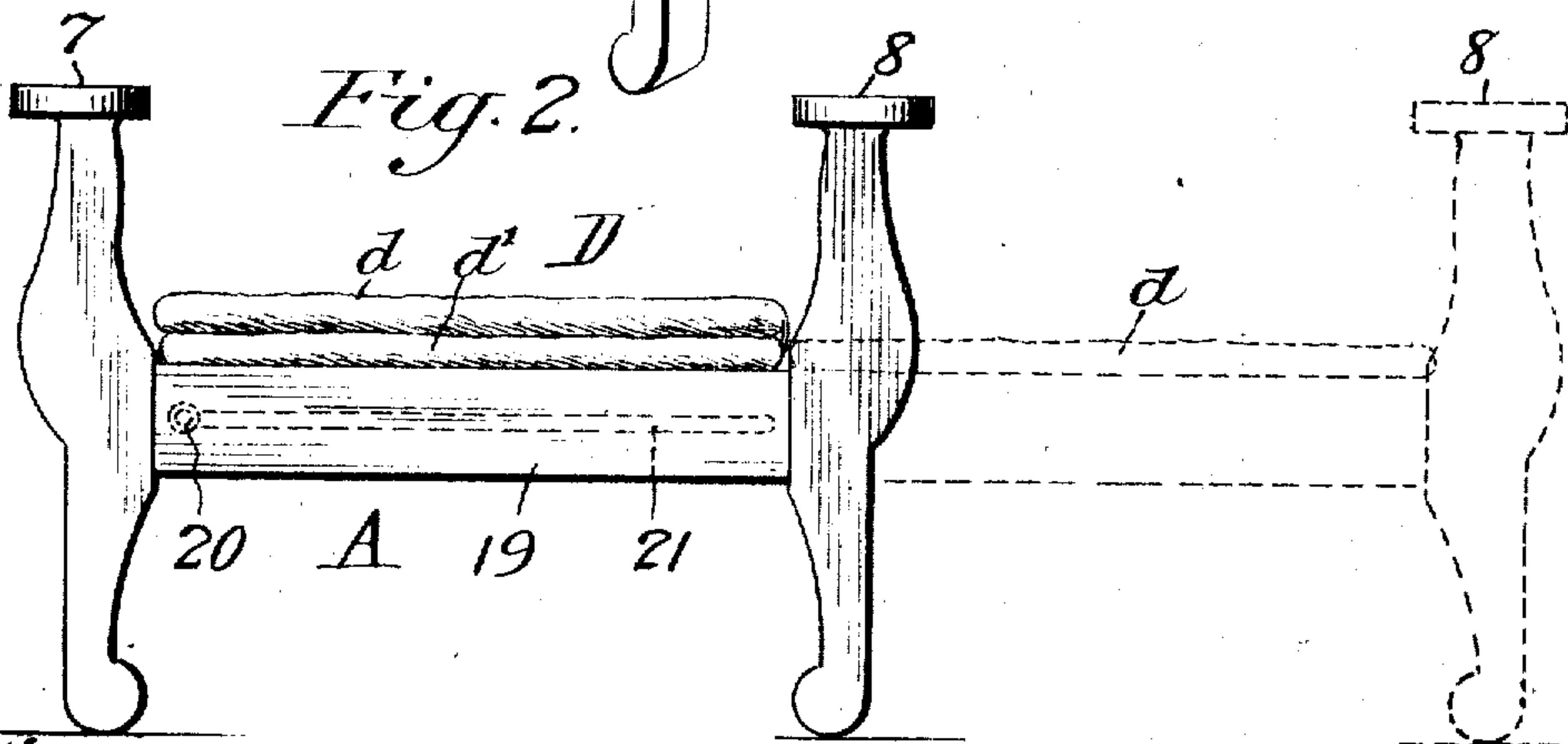
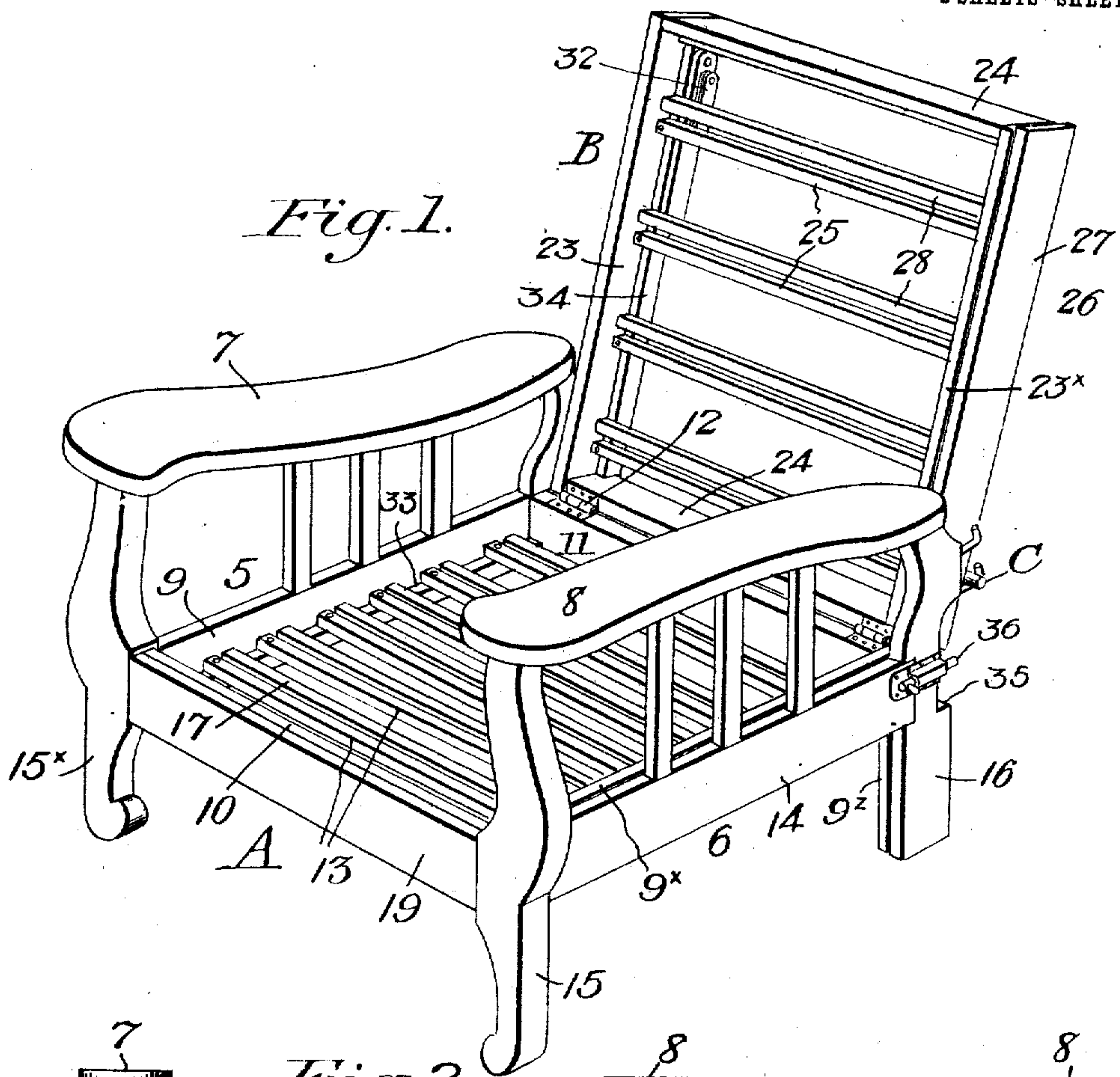


A. G. SHAW.
 CONVERTIBLE CHAIR.
 APPLICATION FILED APR. 1, 1909.

954,594.

Patented Apr. 12, 1910.

3 SHEETS—SHEET 1.



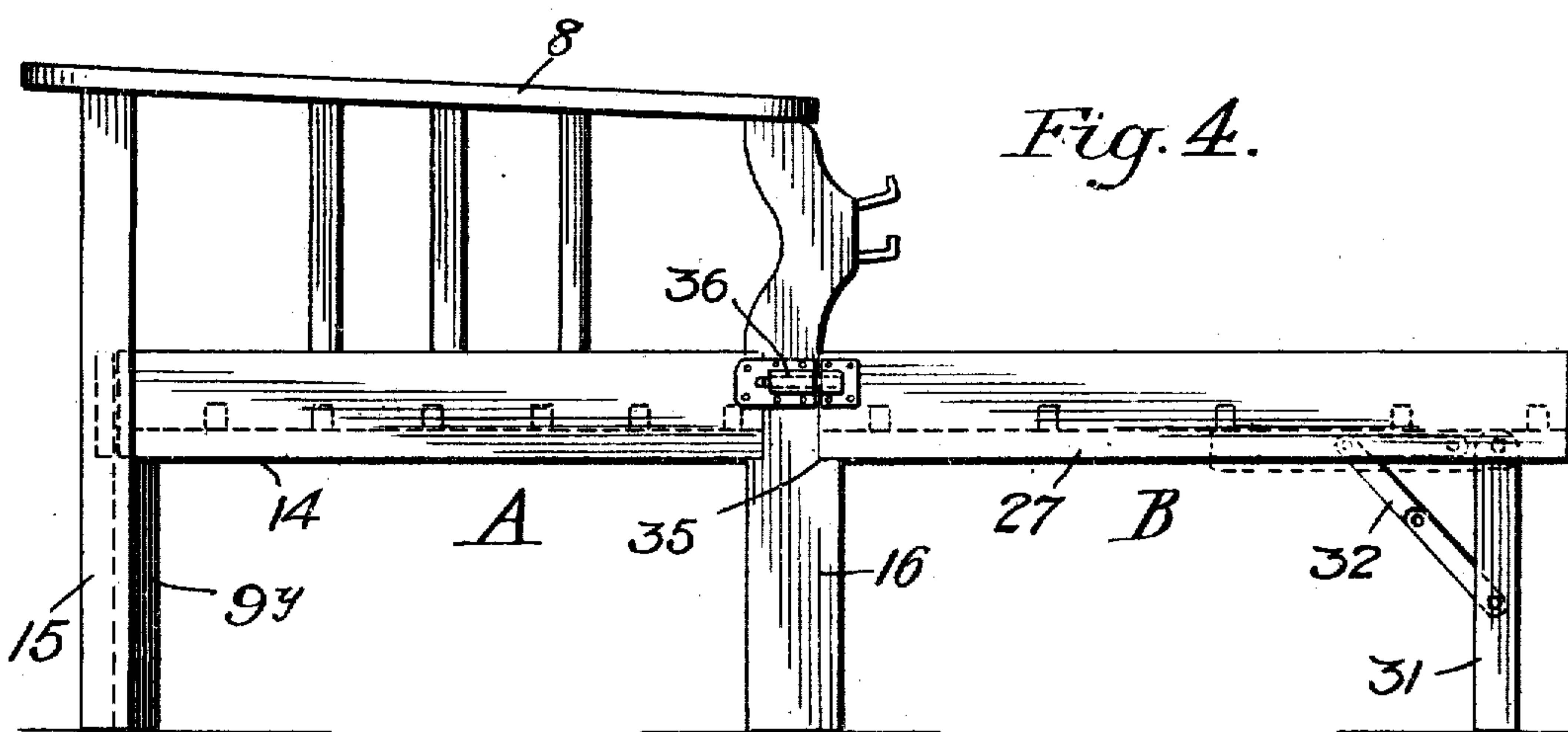
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2 SHEETS--SHEET 2.



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UNITED STATES PATENT OFFICE.

ALVONI G. SHAW, OF HARRISBURG, PENNSYLVANIA.

CONVERTIBLE CHAIR.

954,594.

Specification of Letters Patent. Patented Apr. 12, 1910.

Application filed April 1, 1909. Serial No. 487,155.

To all whom it may concern:

Be it known that I, ALVONI G. SHAW, a citizen of the United States, residing at Harrisburg, in the county of Dauphin and State of Pennsylvania, have invented certain new and useful Improvements in Convertible Chairs; 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 convertible chairs, and more particularly to Morris chairs in which the back can be let down to the level of the seat portion in order to permit the use of the chair as a bed.

The object of the invention is to provide a chair of this kind in which the seat and back are extensible laterally in an improved manner so that when the chair is used as a bed, the latter will have the requisite width.

The invention also aims to provide improved means for positioning the parts with reference to each other and properly supporting them when the device is used as a bed.

The novel features of the invention will appear from the following description and claims.

In the accompanying drawing, Figure 1 is a perspective view of a chair constructed in accordance with the invention, the cushions being removed. Fig. 2 is a diagrammatic front elevation of the seat portion of the chair showing how the latter is extended laterally and also illustrating the arrangement of the cushions. Fig. 3 is a top plan view, partly in section, showing the chair extended and ready for use as a bed, and Fig. 4 is a side elevation of the device when arranged as shown in Fig. 3.

The improved chair comprises a seat portion A and a back B hinged thereto and adjustably supported by means of a back rod C, as is usual in Morris chairs. Both the seat portion and the back are laterally extensible, so that when the back is let down and supported on a level with the seat portion, the chair can be extended laterally as a whole in order to form a bed of the requisite width.

The seat portion A is formed of a main frame 5 and an extensible frame 6, the main frame 5 carrying the arm 7 and the extensible frame 6 carrying the other arm 8.

The main frame 5 embodies side pieces 9, 9^x, a front piece 10 and a back piece 11, upon which latter the hinges 12 of the back B are secured as best shown in Fig. 3. The side piece 9^x is supported at its front and rear ends by legs 9^y, 9^z, respectively, while the side piece 9, together with the front piece 10, is supported by the leg 15^x. Extending between side pieces 9, 9^x are transverse slats 13.

The extensible frame 6 embodies a side piece 14 supported by means of a front leg 15 and a rear leg 16 and placed alongside the side piece 9 of the main frame as shown in Fig. 1, the said side piece 14 having fixed to it a series of transverse slats 17 which pass through openings 18 in the side piece 9^x and between the slats 13 of the main frame. The extensible frame 6 is provided at the front of the chair with a front piece 19, which is carried by the leg 15 and extends over the front member 10 of the main frame; and the front piece 19 carries an inwardly projecting bolt 20 at the end opposite the leg 15 which bolt travels in a longitudinal slot 21 in the member 10 and is adapted to be clamped in position in said slot by a nut 22, as illustrated in Fig. 3.

The back B, which is hinged to the rear member 11 of the main seat frame, comprises side members 23, 23^x and end members 24, one of which has fastened to it the hinges 12. The side members 23, 23^x are connected by means of slats 25. Coacting with the main frame of the back is an extensible frame comprising a member 27 adapted to be placed alongside the side member 23^x and carrying transverse slats 28 which move through holes 23^y formed in the aforesaid member 23^x, the slats 28 being movable into place alongside the fixed slats 25, as shown in Fig. 1.

At the top of the back the same carries folding legs 29, 30 and 31, as shown in Fig. 3, the legs 29 and 30 being carried by the side members 23 and 23^x respectively of the main back frame, while the leg 31 is applied to the side member 27 of the extensible frame. These folding legs are braced by folding braces 32 connecting them with the respective side members, as shown in Figs. 3 and 4.

Fig. 1 illustrates the device when used as an ordinary Morris chair. The frames of the seat portion and back are telescoped

with each other as far as possible so that the side members 14 and 9^x of the seat portion and the side members 27 and 23^x of the back are in contact, as shown. The device therefore has the appearance of an ordinary Morris chair and when the cushions are placed in the same, it is not apparent that the construction is different from that usually employed in chairs of this kind. The back is held in the desired adjusted position by means of the ordinary back rod C and the folding legs of the back are held up and alongside the respective side members by means of the braces 32 which are folded as shown in full lines in Fig. 1 and in dotted lines in Fig. 4. The transverse slats 17, 28 respectively of the extensible seat and back frames rest at their free ends, in this position of the parts, upon the rails 33, 34 respectively, upon which the fixed slats 13, 25 respectively are secured at one end, and the legs 9^y and 9^z of the main seat frame are located alongside the legs 15, 16 respectively and partially concealed by the latter, as shown in Figs. 1 and 4.

When it is desired to use the chair as a bed, the back rod C is removed in order to let the back down to the level of the seat and the folding legs of the back are let down in order to support the back in this position. The seat is then extended laterally by releasing the nut 22 on the bolt 20 so that the extensible frame 6, provided with the arm 8 and legs 15, 16 can be slid away from the main frame 5, as shown in Fig. 3, the main frame being effectively supported during this operation by its legs 9^y, 9^z. When the extensible frame 6 is pulled out as far as possible, which movement is limited by the bolt 20 traveling in the slot 21, the side piece 9^x will be at substantially the center of the extended chair frame and the legs 9^y, 9^z will therefore support the device along a line extending longitudinally and centrally thereof. The back B is next extended by pulling out the side frame 26 which carries the slats 28, these latter moving freely through their openings in the side piece 23^x just as the slats 17 of the frame 6 are moved through the side member 9^x. When the frame 26 is extended as far as the frame 6, it will come to rest at its inner end in a notch 35 formed in the leg 16, and in this way the frame 26 will be effectively supported at its inner end, as shown in Fig. 4. It is also preferable to provide a locking bolt 36 on the leg 16 so that when the frame 26 has reached its final position, it may be locked therein, as shown in Fig. 4, in order to form a firm and rigid bed structure. A similar bolt 36^x is used at the opposite side of the device to lock the main frames of the seat and back together, as shown in Fig. 3.

It is obvious that the device can be ex-

tended to different degrees in order to be used in connection with cushions or mattresses of different widths. In Fig. 3, the extensible side frames 6 and 26 are only pulled out half way. When the desired position is reached, the nut 22 may be turned in order to clamp the parts in position if such is desired, although this is not always necessary. If this is done, the extensible frame 6 is locked in position and as the frame 26 is locked to this last named frame, both of the extensible frames are locked in position.

In case the device is extended to twice its width when used as a chair, the cushion D shown in Fig. 2 may be used to constitute a part of the mattress. This cushion is formed of two sections *d*, *d*¹, sewed together along one edge in order to form a sort of hinged connection between the sections. When the device is used as a chair these sections are superposed, but when the device is extended as hereinbefore described, the top section *d* of the cushion is thrown over into the position shown in dotted line in Fig. 2, in which position it completely fills the space between the arms 7 and 8, which in this case form the side members of the bed. A similar cushion (not shown) is used in connection with the back of the chair, as will be understood.

When the device is to be again used as a chair, the operations described are reversed, the extensible sections of the seat and back being pushed inward as far as possible, after which the back is raised and supported by the back rod, the folding legs being pulled up and held alongside the respective side members of the back frames.

What I claim is:—

1. In a convertible chair, the combination of a main seat frame, a main back frame hinged thereto, and extensible side frames movable laterally with respect to the said main frames and carrying transverse slats movable through side members of said main frames.

2. In a convertible chair, a main seat frame having a longitudinally slotted front member, a laterally extensible side frame coacting with the main frame, and a front member carried by the side frame and having a clamping bolt movable in the slot of the front main frame member.

3. In a convertible chair, a main seat frame, a main back frame hinged thereto, an extensible frame movable laterally with respect to the main seat frame, and an extensible frame coacting with the main back frame and which is supported on the extensible seat frame when the back is let down.

4. In a convertible chair, the combination of a main seat frame, a main back frame hinged thereto, an extensible frame movable laterally with respect to the main seat frame

and having a notch, and an extensible frame coacting with the main back frame and supported in said notch when the back is let down.

5 5. In a convertible chair, a main seat frame, a main back frame hinged thereto, extensible frames coacting respectively with the main seat frame and main back frame, and means to secure said extensible frames
10 to each other when they are extended.

6. In a convertible chair, a main seat frame, a main back frame hinged thereto, extensible frames movable laterally from the main seat frame and the main back frame
15 respectively, and means at the meeting ends of said extensible frames to lock them together when the back is lowered and said frames are extended.

7. In a convertible chair, a main seat
20 frame, a main back frame hinged thereto, extensible frames movable laterally from the seat and back frames, the extensible frame of the seat being arranged to support that of the back when the back is lowered
25 and the extensible frames are extended, and means to lock the extensible frames to each other.

8. In a convertible chair, the combination
30 of a main seat frame, a main back frame hinged thereto, a laterally extensible up-

right side frame coacting with the main seat frame and provided at its rear with a notch, a laterally extensible frame coacting with the main frame of the back and adapted to rest at its inner end in said notch when the
35 back is let down, and a bolt to lock the extensible frames together in the position indicated.

9. In a convertible chair, the combination with a seat, of a back hinged thereto and
40 movable downward into the plane of the seat, folding legs carried by the back at its upper part, and braces connecting said legs with the side members of the back and arranged to hold the folding legs alongside
45 said members.

10. In a convertible chair, the combination with a seat, of a back hinged thereto and movable downward into the plane of the seat, said back being composed of a
50 main frame having side members, and an extensible frame, and folding legs carried by the side members of the back and by the extensible frame.

In testimony whereof I affix my signature, 55
in presence of two witnesses.

ALVONI G. SHAW.

Witnesses:

A. W. SWENGEL,
G. W. HEPLER.