

905,496.

W. R. CAMERON.
FOLDING CHAIR.
APPLICATION FILED JULY 22, 1907.

Patented Dec. 1, 1908.
2 SHEETS—SHEET 1.

Fig. 1.

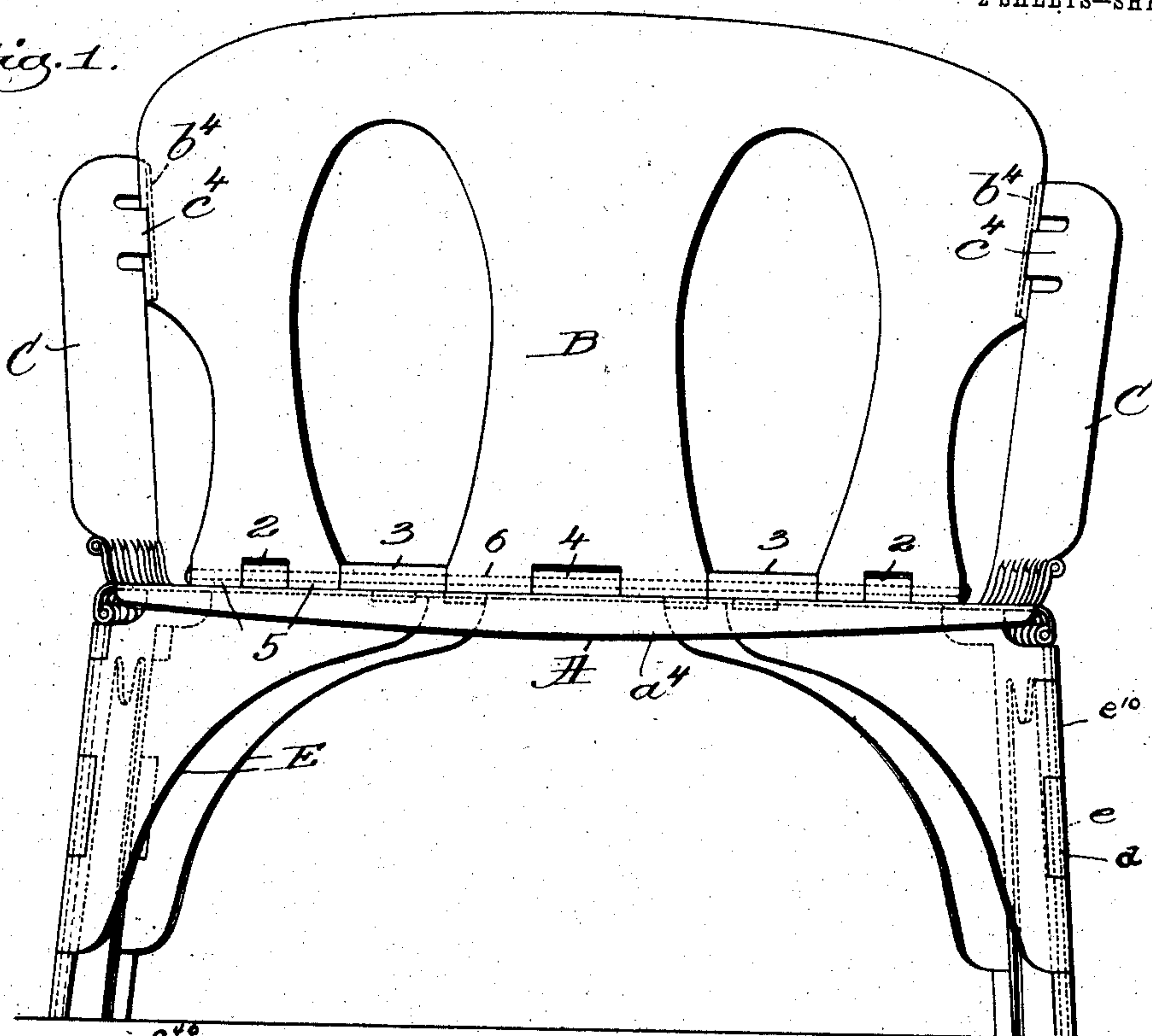
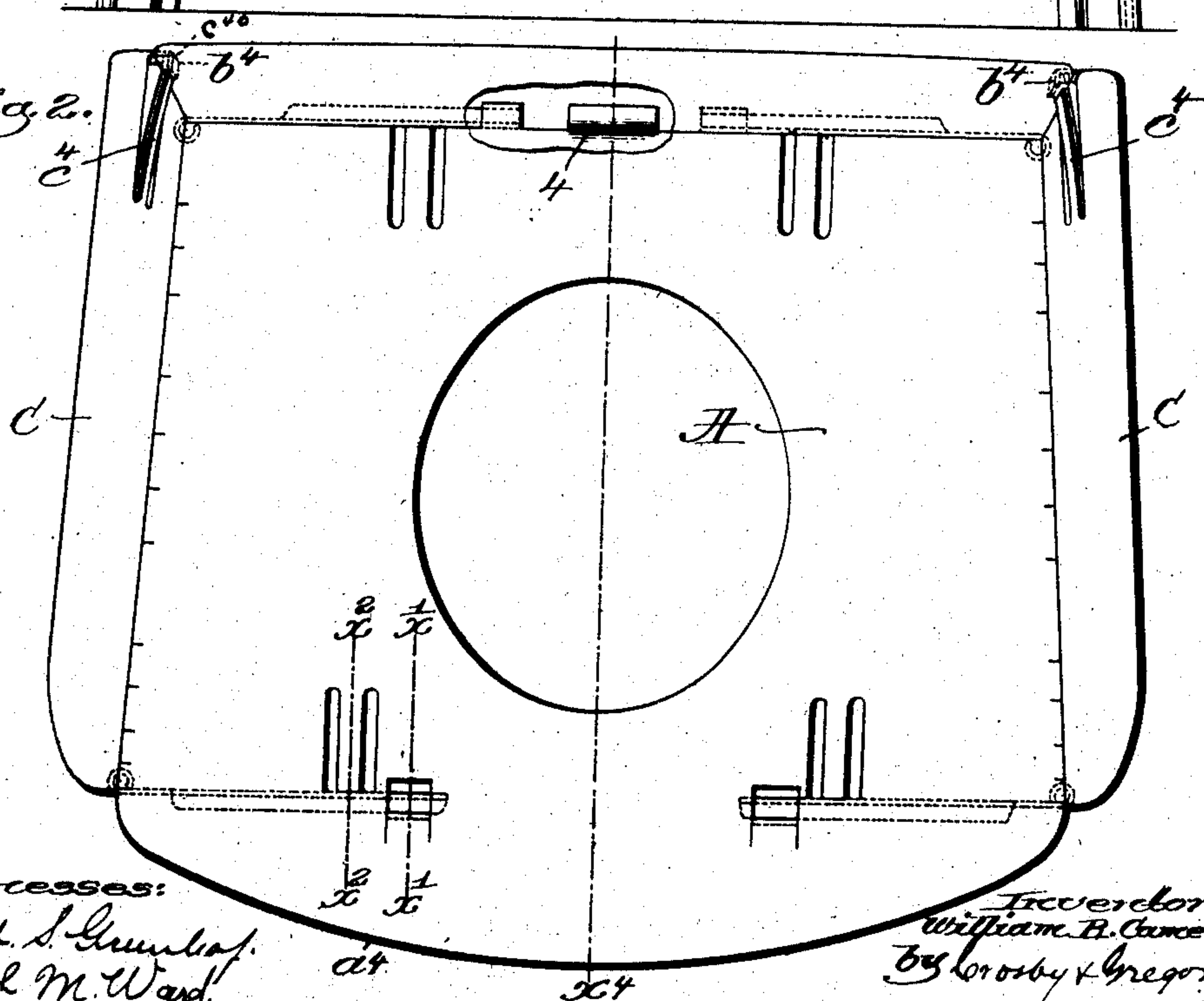


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 8.

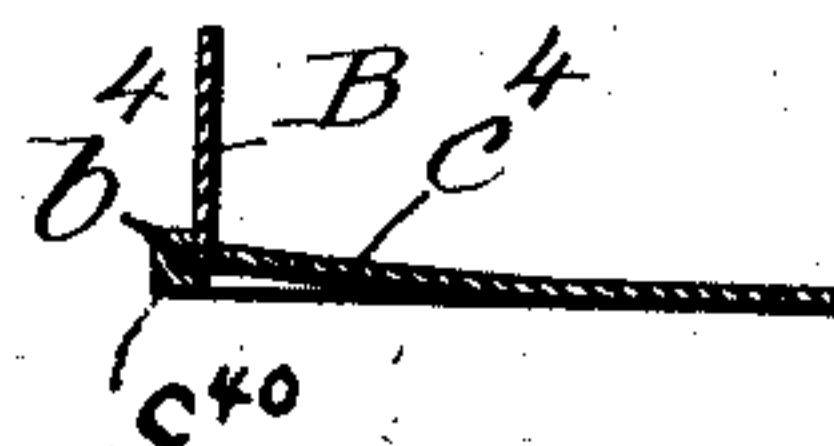


Fig. 3.

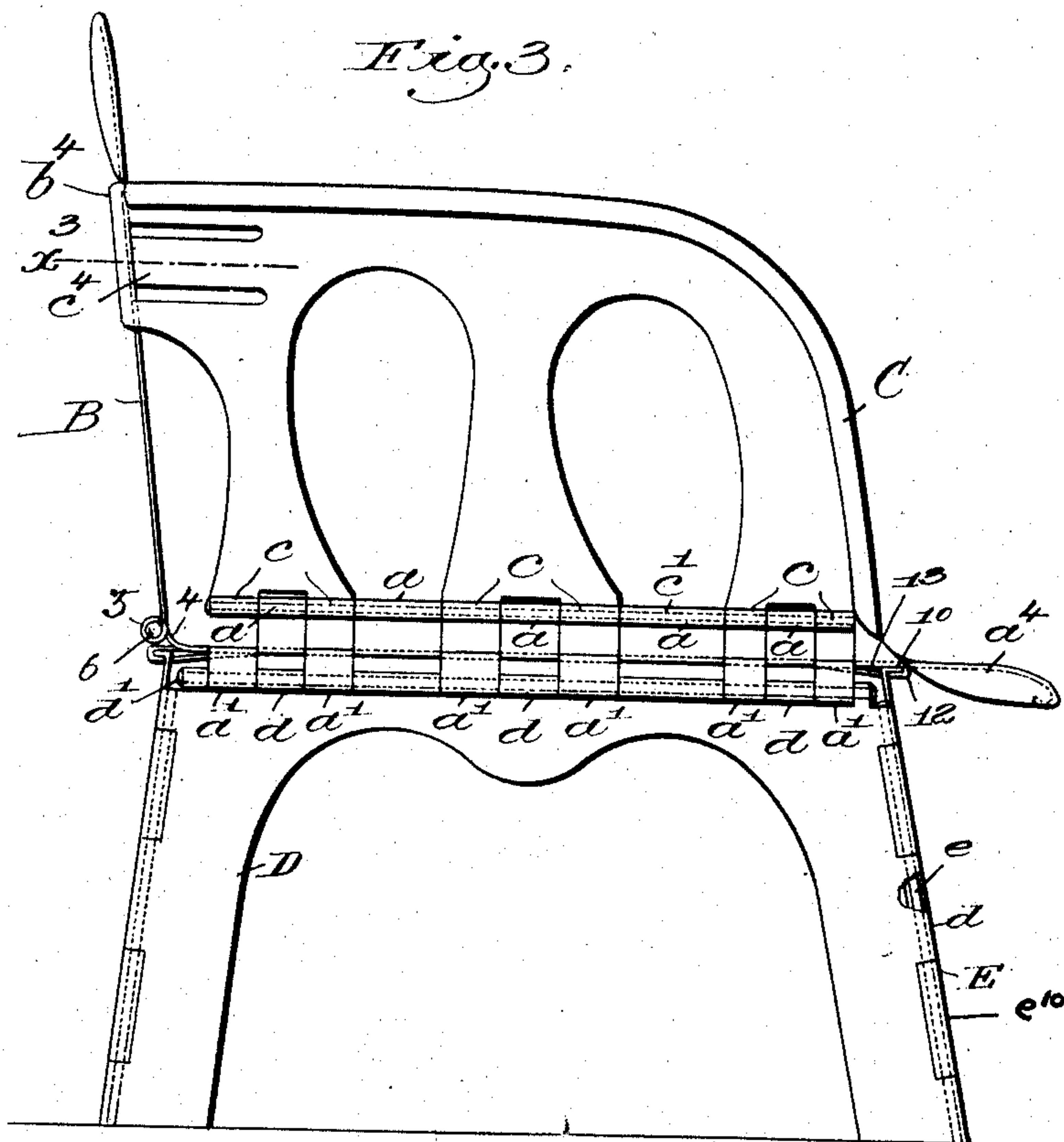


Fig. 4.

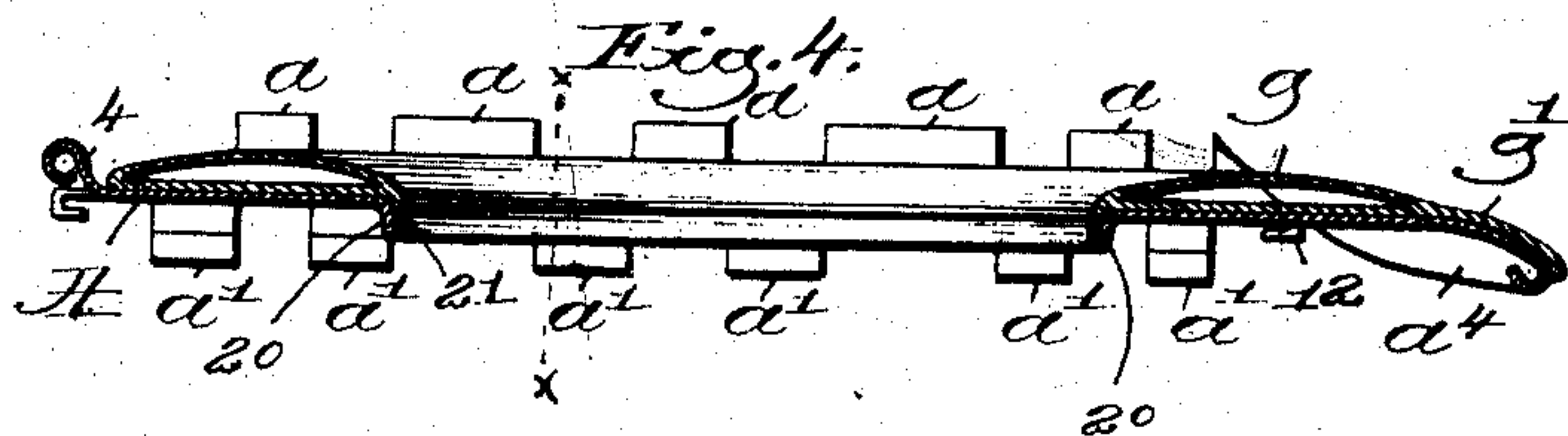


Fig. 5.



Fig. 6.

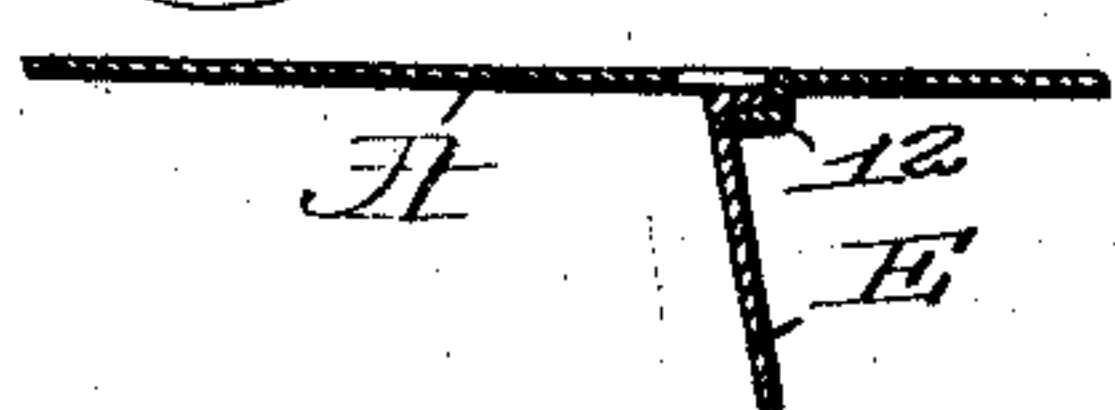
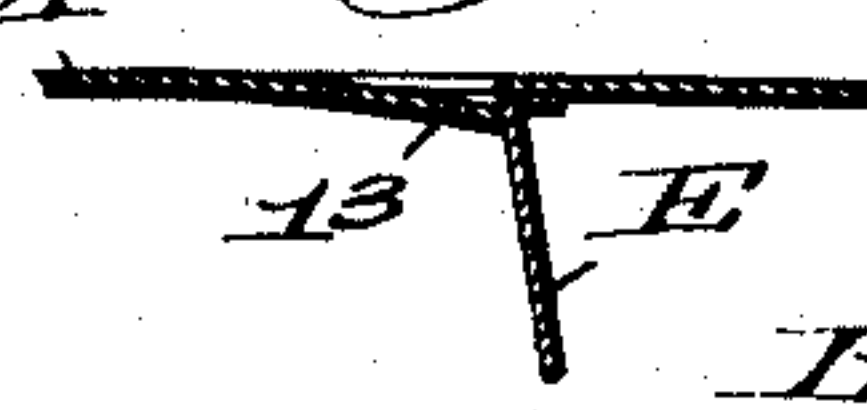


Fig. 7.



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UNITED STATES PATENT OFFICE.

WILLIAM R. CAMERON, OF BOSTON, MASSACHUSETTS.

FOLDING CHAIR.

No. 905,496.

Specification of Letters Patent.

Patented Dec. 1, 1908.

Application filed July 22, 1907. Serial No. 384,852.

To all whom it may concern:

Be it known that I, WILLIAM R. CAMERON, a citizen of the United States, and resident of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Folding Chairs, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawing representing like parts.

This invention has for its object the production of a novel chair that may be readily folded into a very small space, the legs, back and arms being capable of being folded into substantially the plane of the seat, the back and arms at one and the legs at the other side of the seat.

My folding chair may be constructed of any material, but preferably it will be made of sheet metal struck into the proper shapes and the sheet metal used may be surface treated in any way that metals are commonly treated to guard against rust, or to form a finish, as for instance the metal might be glazed after the manner of so-called agate ware.

My chair may be used for a variety of purposes, as for instance a portable chair for automobile work, or when attending outdoor functions, or it may be used as a nursery chair. I have herein chosen to illustrate my invention as a nursery chair.

Figure 1 shows a front elevation of a chair embodying my invention in one good form; Fig. 2 a top view of the chair, Fig. 1; Fig. 3 is a left hand side elevation of the chair, Fig. 1; Fig. 4 a sectional detail of the seat of the chair on the line x^1 , Fig. 2 showing a hinge member forming part of the seat; Fig. 5 is a section in the line x , Fig. 4; Fig. 6 is a section in the line x' Fig. 2; Fig. 7 is a section in the line x^2 , Fig. 2; Fig. 8 is a section in the line x^3 , Fig. 3.

Referring to the drawing, A represents a seat the rear edge of which is slitted and bent after the manner of manufacturing hinges to leave separate projections that are bent or shaped as at 2, 3, 4 to form eyes that are embraced by notched and correspondingly bent or eyed projections 5, see Fig. 1, of the chair back B, said eyes receiving a rod 6 that serves to hinge the back to the rear edge of the seat.

Both side edges of the seat are alike, see Fig. 4, and the metal at each side is slitted at intervals, see Fig. 2, said slits being shown

as separated at different distances, turned oppositely and rolled at their ends to leave a series of upturned eyes a and downturned eyes a' . The arms C of the chair are cut and bent at their lower edges to form eyes c that enter the spaces between the upturned portion a of the seat and a pivot or rod c' is pushed through the eyes a and c , thus hinging each arm to the seat.

The side legs D of the chair are cut at their upper ends and bent to form eyes d that are pushed into the spaces between the downturned eyes a' and said eyes are pivoted or hinged together by a rod d' .

That the side legs D may be braced in their operative position and the front and back of the seat be safely sustained, I have hinged or jointed to the outer edges of each side leg by a pintle or rod e , braces E, see dotted lines, extended through eyes d of the side legs and eyes e^{10} of the braces.

The braces when in their operative positions should, for safety, be locked, and to provide for this, I have provided the upper end of each front and back brace with a flange 10 that engages a downturned lip 12 of the seat, yielding portions or spring tongues 13 on the seat acting on the inner sides of said braces to lock the same together after a flange has engaged a lip 12.

To retain the arms in their operative or upright position, as in Figs. 1, 2 and 3, I have combined with said arms and the back locking means shown as a spring tongue or portion c^4 integral with each arm C and adapted to engage the front face of the back B of the seat, a flange b^4 at each side of the back entering an overturned lip c^{40} formed on the edge of the adjacent arm C, the spring tongue c^4 acting to retain the lip and flange in engagement, see Fig. 8.

The front edge of the seat is shown as provided with a projecting portion or flange a^4 having its front edge and sides curved or rolled to furnish smooth or rounded edges, see Figs. 3 and 4. When the seat is cut out to provide a central hole, see Fig. 2, to constitute a nursery or hospital chair, the blow of the die will be such that in cutting the hole some of the metal about the hole edge will be turned downwardly forming a lip 20, see Fig. 4, and the downturned portion may be engaged by a lip 21 of part of an india rubber or other usual pad or cushion g having a hole, a part of which pad or cushion will form a soft or yielding lining for the

hole, part of said cushion being shown in Figs. 2 and 4, a flap g' of the pad or cushion overlying the lip a^4 of the seat.

To shut up my novel folding chair that it may occupy its minimum space and be easily portable, I press outward the spring tongues c^4 to disengage the flanges b^4 from the lips c^{40} , thereby unlocking the arms from the back, fold the back forwardly on the seat, and then fold the arms on to the closed back, this being possible as the hinged rod d' occupies a position above the hinge rod 6. Then the means for locking the braces are disengaged from the seat, and said braces are folded inwardly against the inner sides of the side legs and the side legs are then folded inwardly under the seat, the braces lying next the under side of the seat.

The pad or cushion may be inflated in any suitable manner, in which instance the pad will be composed of two plies with a space between, and an air valve will be connected with one of the plies that may be blown up after the manner of any usual inflated seats, cushions, or water-bags.

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

1. A folding chair comprising a seat, side legs, and back and front braces pivotally connected with the side legs, combined with means for locking said front and back braces to the seat substantially at right angles to the side legs, said means including cooperating lips and flanges and normally operative spring tongues.

2. A folding chair comprising a metallic

seat, a metallic back pivotally connected therewith and provided with lips adjacent its side edges, metallic side arms pivotally connected with the seat and provided with flanges to cooperate with the lips on the back, and spring tongues on the sides to bear against the front face of the back and retain the lips and flanges in locking engagement.

3. In a folding chair, a metallic seat and metallic side legs hinged thereto, lips on the seat, front and back braces hinged to the front and back upright edges of the legs and provided with flanges to cooperate with the lips, and spring locking tongues on the seat to automatically engage the braces and retain the flanges thereof in engagement with the lips, to retain the braces in operative position.

4. A folding chair comprising a metallic seat provided at its rear edge with a series of eyes, and at its ends with two sets of said eyes, one upturned, and the other downturned, combined with a back having a series of eyes, a rod for connecting the edge of the back and rear of the seat, arms having a series of eyes, rods for hinging the eyes of the arms with the upturned eyes of the seat, hinged side legs having a series of eyes, and a rod for hinging the eyes of said legs to the downturned eyes of said seat.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

WILLIAM R. CAMERON.

Witnesses:

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