

No. 803,963.

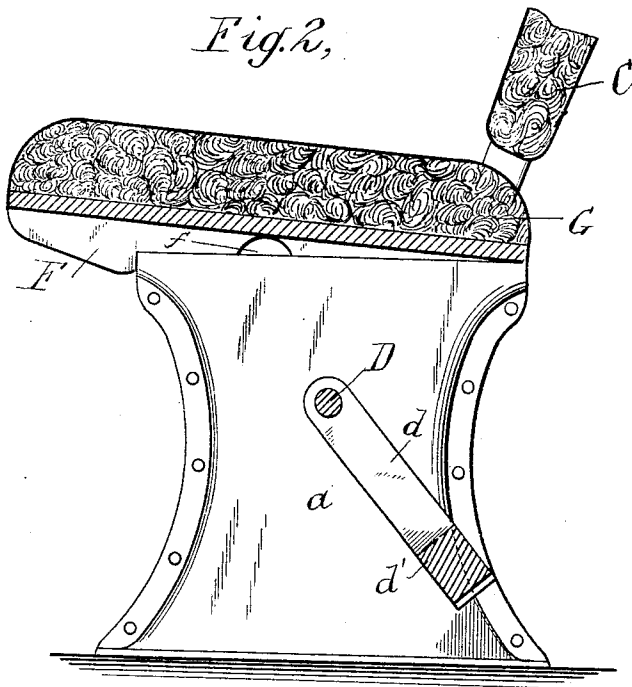
PATENTED NOV. 7, 1905.

J. APPLIN.  
CAR SEAT.

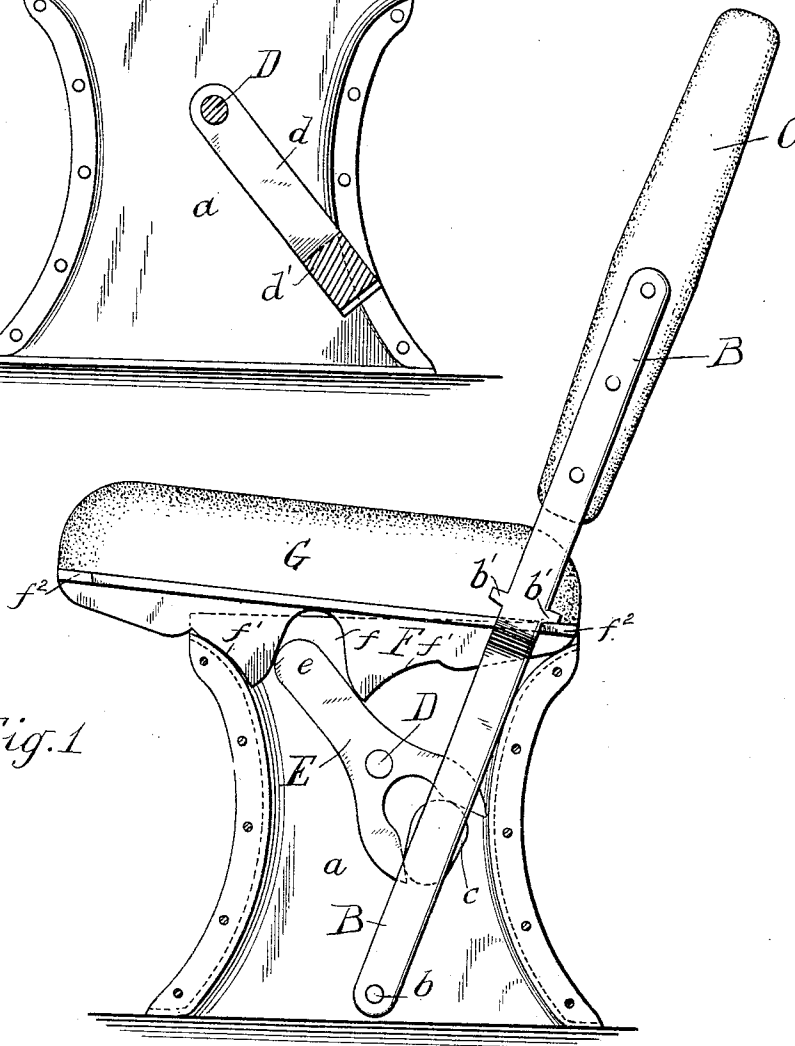
APPLICATION FILED SEPT. 20, 1904.

2 SHEETS—SHEET 1.

*Fig. 2,*



*Fig. 1*



WITNESSES  
*S. M. S. Intosh*  
*L. Nork.*

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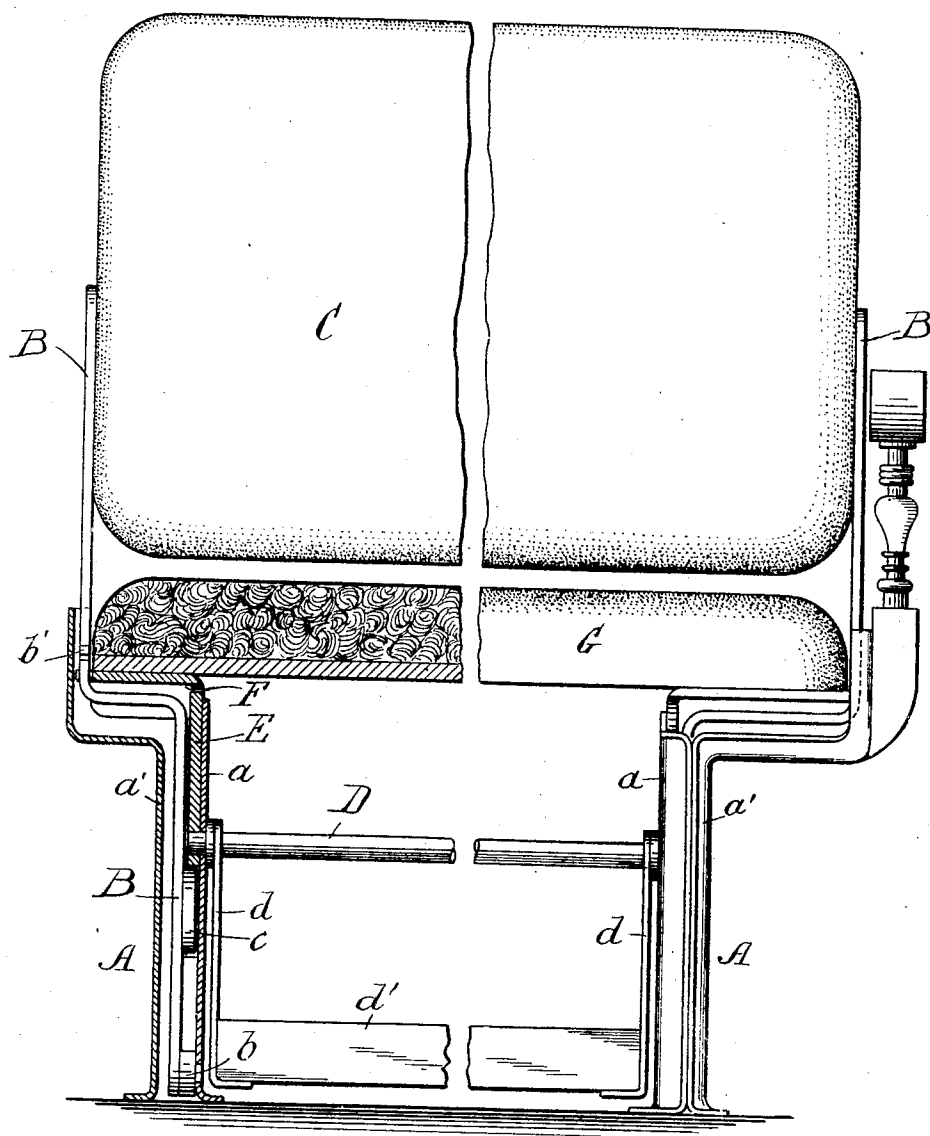
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2 SHEETS—SHEET 2.

*Fig. 3,*



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

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## CAR-SEAT.

No. 803,963.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed September 20, 1904. Serial No. 225,190.

*To all whom it may concern:*

Be it known that I, JOSEPH APPLIN, a citizen of the United States, and a resident of Philadelphia, in the county of Philadelphia, in the State of Pennsylvania, have invented new and useful Improvements in Car-Seats, (Case B,) of which the following is a specification.

The object of the invention is to provide a car-seat structure of the "walk-over" type which shall consist of few parts, capable of being cheaply and strongly made, and which shall be durable in operation.

A further object is to so construct the seat as to assure easy and reliable working thereof in the operation of reversing the back, so that the seat shall face in either direction.

In carrying out the invention I employ a supporting-frame which may be similar to those heretofore used, and to the side members of this frame at points close to the lower portions of such parts I pivotally mount the back-arms, to the upper ends whereof the back is suitably secured. Pivoted also in the side members of the frame and extending between them is a rock-shaft carrying between such side members a shifting foot-rest, and outside such side members and keyed or otherwise secured to such shaft are rocking levers, whose upper ends coact with the rockers of the seat-cushion in order to transmit thereto movement imparted by the reversal of the back. The lower ends of each of the rocking levers are bifurcate, and so coact with lugs carried by the back-arms as to preclude lost motion, thus making the movement of the parts due to the reversal of the back easy and continuous.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is an end elevation of a car-seat embodying my improvement. Fig. 2 is a central vertical section; and Fig. 3, a front view, partly in elevation and partly in section.

Referring to the drawings, in which similar letters denote corresponding parts, it will be noted that each side frame A is here shown as comprising two members *a a'*, secured together along the edge, as indicated in Figs. 1 and 2. Pivoted to the inner member *a* of the

side frame at *b* are the back-arms B, to the upper ends whereof is secured the back C.

D denotes a rock-shaft journaled in and extending between the side members *a* of the frame, its ends protruding through such side members for the purpose presently described. Keyed or otherwise secured to such rock-shaft so as to move therewith are foot-rest hangers *d*, carrying the foot-rest *d'*. At each end of such rock-shaft and outside the inner frame member *a* a rocking lever E is keyed or otherwise secured to such shaft, so as to be movable therewith. The lower end of each of such rocking levers is bifurcate, as shown in Fig. 1, and the outwardly-extending arms formed by such bifurcation coact with a lug *c*, formed on the inner surface of each of the back-arms B. These lugs are here shown as egg-shaped, and the outline of the outwardly-extending arms of the rocking levers E is such as that both such arms of each lever will be in contact with a lug *c* in any position of the back-arm, thus assuring uniformity in the transmission of motion from the back to the rocking lever E.

The upper ends *e* of the rocking levers E coact with recesses *f* in rockers F, carrying the seat-cushion G. Said rockers are supported by the side members of the frame, as shown in Fig. 1, and preferably are provided with the inclines *f'*, whereby the movement transmitted to them by the upper ends *e* of the rocking levers E will cause not only bodily shift of the seat-cushion, but also a canting movement thereof, so that in either facing direction of the seat the forward edge of the cushion shall be higher than the rearward edge. It will thus be seen that by an easy and continuous motion the reversal of the back causes not only the shifting of the cushion, but also the corresponding shifting of the foot-rest *d'*, so that when the seat is facing in one direction such rest will be in position for use by the occupant of the next seat in the rear.

As shown in Figs. 1 and 3, the upper (supporting) surface of the rockers F are flanged outwardly, and such flanges are provided near their ends with stops *f''*, which limit the movement of the back-supporting arms B. Also, if desired, said arms may be provided

with ears  $b'$ , coacting with said stops  $f^2$  and aiding to hold the parts rigidly in either position to which the mechanism is moved.

What I claim, and desire to secure by Letters Patent, is—

1. In a seat, the combination with a frame, of back-supporting arms pivoted near the lower portion of said frame, a rock-shaft extending between the members of said frame and carrying a shifting foot-rest and levers carried by said rock-shaft outside the side members of such frame, the lower ends of said levers being bifurcate and the bifurcation coacting with lugs carried by said back-arms, substantially as described.

2. In a seat, the combination with a frame, of back-supporting arms, pivoted near the lower portion of said frame, a rock-shaft extending between the members of said frame and carrying a shifting foot-rest and levers carried by said rock-shaft outside the side members of such frame, the lower ends of said levers being bifurcate and the bifurcation coacting with egg-shaped lugs carried by said back-arms, substantially as described.

3. In a seat, the combination with a frame and a movable cushion carried by rockers

supported in such frame, of back-arms pivoted to said frame, a rock-shaft extending between the side members of such frame and carrying a shifting foot-rest and rocking levers also carried by said rock-shaft outside of such side members, the upper ends of such levers coacting with the cushion-supporting rockers and their lower ends being bifurcate and coacting with lugs carried by such back-supporting arms, substantially as described.

4. In a seat, the combination with a frame and seat-cushion, of detachable cushion-supporting rockers movable in a substantially horizontal plane and provided with stops, back-supporting arms pivoted to said frame and having ears coacting with said stops, and levers intermediate of said arms and said rockers for transmitting to the latter movement resulting from the reversal of said back, substantially as described.

This specification signed and witnessed this 31st day of August, 1904.

JOSEPH APPLIN. [L. s.]

Witnesses:

ROBERT ARCHER,  
GEORGE WINCHESTER.