

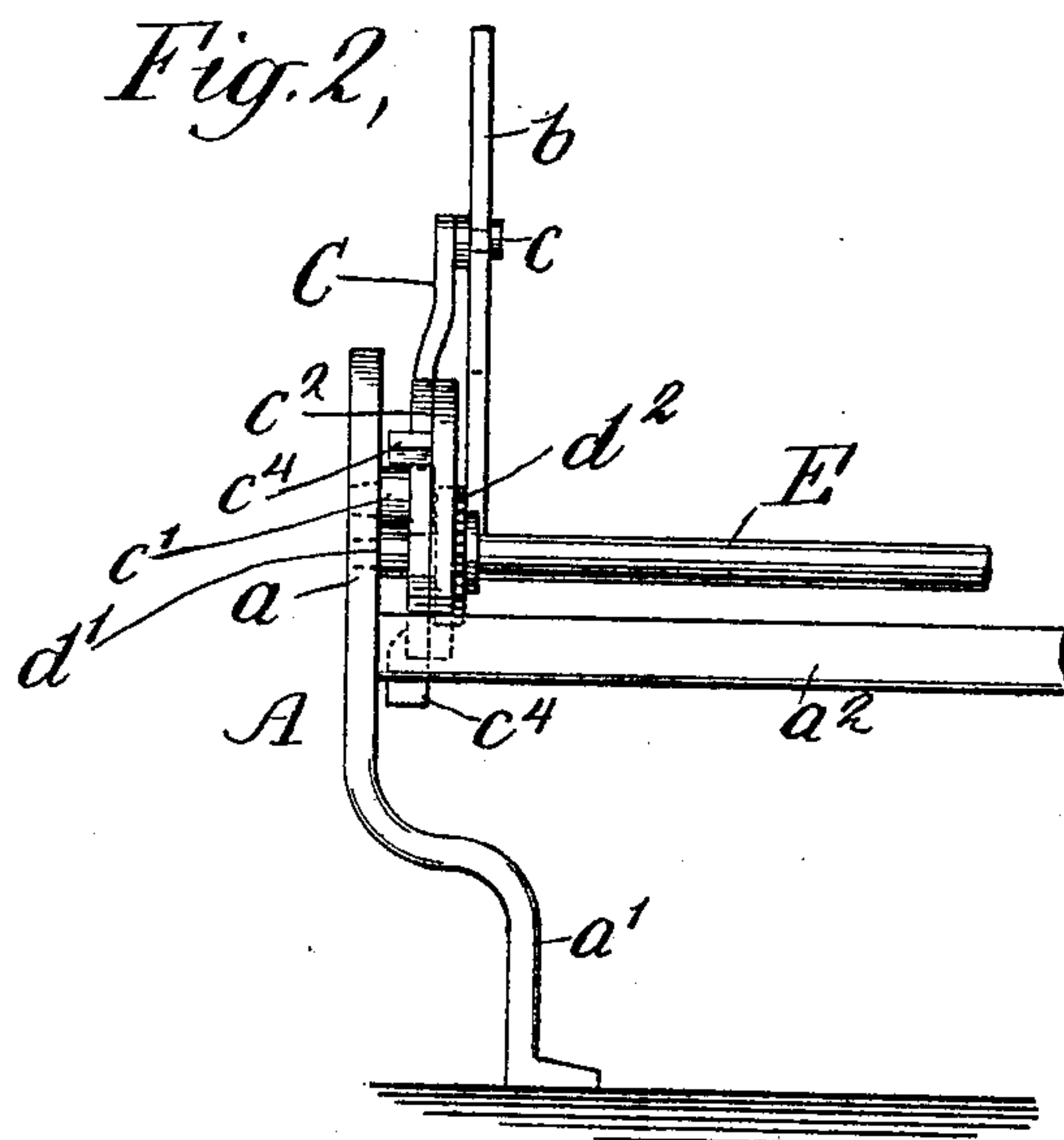
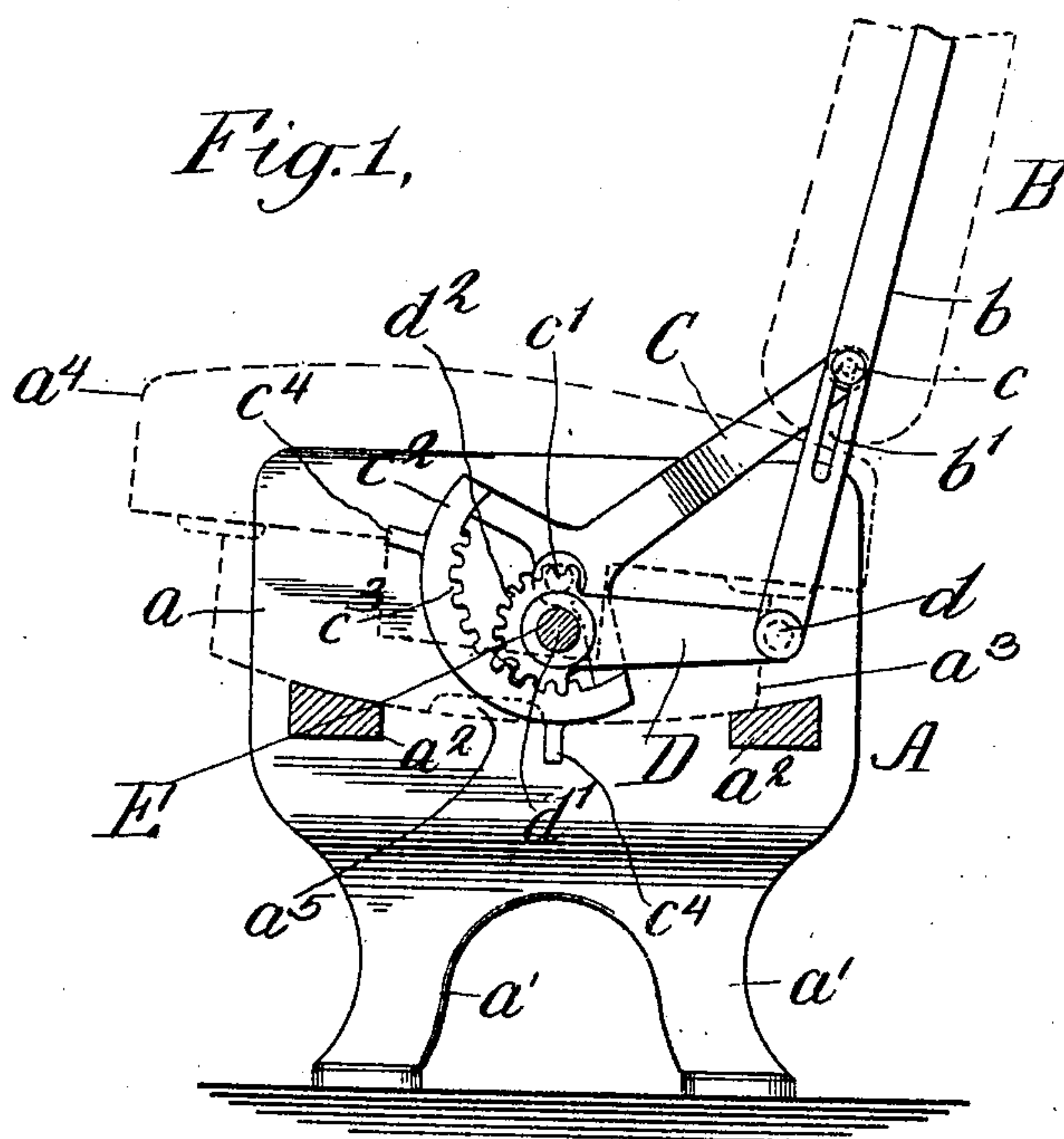
No. 795,501.

PATENTED JULY 25, 1905.

F. K. FASSETT.

CAR SEAT.

APPLICATION FILED JAN. 11, 1904.



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# UNITED STATES PATENT OFFICE.

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## CAR-SEAT.

No. 795,501.

Specification of Letters Patent.

Patented July 25, 1905.

Application filed January 11, 1904. Serial No. 188,616.

*To all whom it may concern:*

Be it known that I, FRANCIS K. FASSETT, a citizen of the United States, and a resident of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Car-Seats, (Case B,) of which the following is a specification.

The invention concerns particularly that type of seats known as the "walk-over" type, in which the back instead of turning completely over moves from one facing position to the other with the same edge in proximity to the cushion.

The object of the invention is to provide a seat of this type in which the back, while positively supported, will be capable of smooth continuous movement from one side of the seat-cushion to the other, the supporting and reversing mechanism being of such character and so connected as to assure the even and simultaneous movement of both ends of the back from one facing position to the other.

In carrying out the invention I employ at each end of the back a supporting-arm to which are pivotally connected two levers whose lower ends are pivotally carried by the seat-frame. Formed integral or otherwise connected with one of these levers is a toothed sector, and with this coacts a pinion carried by the other lever whereby movement by one of said levers independently of the other is precluded. Where it is desired to shift the seat-cushion simultaneously with the movement of the back, this may readily be accomplished by means of a pin or lever actuated by one of the moving parts referred to and coacting with the rockers upon which the cushion is commonly supported.

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

Figures 1 and 2 are respectively a vertical section and front elevation of one end of a car-seat employing my invention.

Referring to the drawings, in which similar letters of reference denote corresponding parts, A designates a suitable supporting-frame having end plates  $a$  and legs  $a'$ . These end plates are connected by the sills  $a^2 a^2$ , upon which may rest and operate the rockers  $a^3$ , supporting the cushion  $a^4$ , one of said rockers and said cushion being for clearness of the other parts shown in dotted line. B designates the seat-back, also shown in dotted lines. At each end this is supported upon a

back arm  $b$ , but may, if desired, be removable therefrom.

C designates a lever pivoted at its upper end to the arm  $b$  by means, preferably, of a pin  $c$ , coacting with a slot  $b'$ , formed in said arm. Said lever C is pivoted at  $c'$  to the end plate  $a$ , and secured to it or formed integral with it is a sector  $c^2$ , the inner face whereof is provided with teeth  $c^3$ . D designates another lever, also at each end of the seat, the upper or outer end whereof is pivoted to the lower end of the back arm  $b$ , preferably by means of a pin  $d$ . The inner end is pivoted to the end plate  $a$  at  $d'$ , and secured to or formed integral with it is the pinion  $d^2$ , the teeth whereof coact with the teeth  $c^3$  of the sector  $c^2$ .

Preferably the lever C will be bowed outwardly between the points  $c$  and  $c'$  in order to afford clearance for the pin  $d$ , connecting lever D and back arm  $b$  in the movement of the parts from one facing position of the seat-back to the other. Preferably also one or the other of the levers C D at each end of the seat will be pivoted upon a connecting-rod to assure simultaneous movement at each end of the seat-back. I have here shown such a rod E extending between and connecting the end plates  $a$ , the levers D at both ends of the seat being keyed or otherwise secured to said rod.

If it be desired to shift the seat-cushion simultaneously with the reversal of the back, the sectors  $c^2$  of the levers D may be provided with pins or studs  $c^4$ , coacting with projections  $a^5$ , formed in the rockers  $a^3$ , whereby such seat-cushion may be supported.

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

1. In a reversible seat, the combination with a frame and a back, of two levers connected at their upper ends to said back and at their lower ends pivotally mounted, one above the other, upon said frame, both of said levers being prolonged beyond said pivotal points, the prolongations engaging with each other to assure synchronous movement, substantially as described.

2. In a reversible seat, the combination with a frame and a back, of two levers connected at their upper ends to said back, one by a pivotal connection and the other by a slot-and-pin connection, and pivoted one above the other at their lower ends to said frame, one of said levers being prolonged beyond the pivotal



point and provided with a pinion, a toothed sector and means for supporting the same, said pinion engaging with said sector, substantially as set forth.

3. In a reversible seat, the combination with a frame and a back, of two levers connected with said back, the upper lever by means of a slot-and-pin connection and the lower lever by means of a pivotal connection, the lower ends of said levers being pivotally mounted one above the other in said frame, said lower lever being prolonged beyond its pivotal point and provided with a pinion, and a sector carried by said frame and coacting with said pinion, substantially as set forth.

4. In a reversible seat, the combination with a frame and a back, of two levers connected therewith, the upper lever by means of a slot-and-pin connection and the lower lever by means of a pivotal connection, the lower ends of said levers being pivoted to said frame one above the other, both of said levers being

prolonged beyond their pivotal points and one provided with a sector and the other with a pinion coacting therewith, substantially as set forth.

5. In a reversible seat, the combination with a frame and a back, of two arms movably connected with said back at their upper ends and pivoted at their lower ends one above the other in said frame, and a coacting pinion and sector carried by said arms upon that side of the point at which said arms are pivotally mounted in said frame which is distant from the connection between the upper ends of said arms and said back, substantially as set forth.

This specification signed and witnessed this 5th day of January, 1904.

FRANCIS K. FASSETT.

Witnesses:

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I. McINTOSH.