

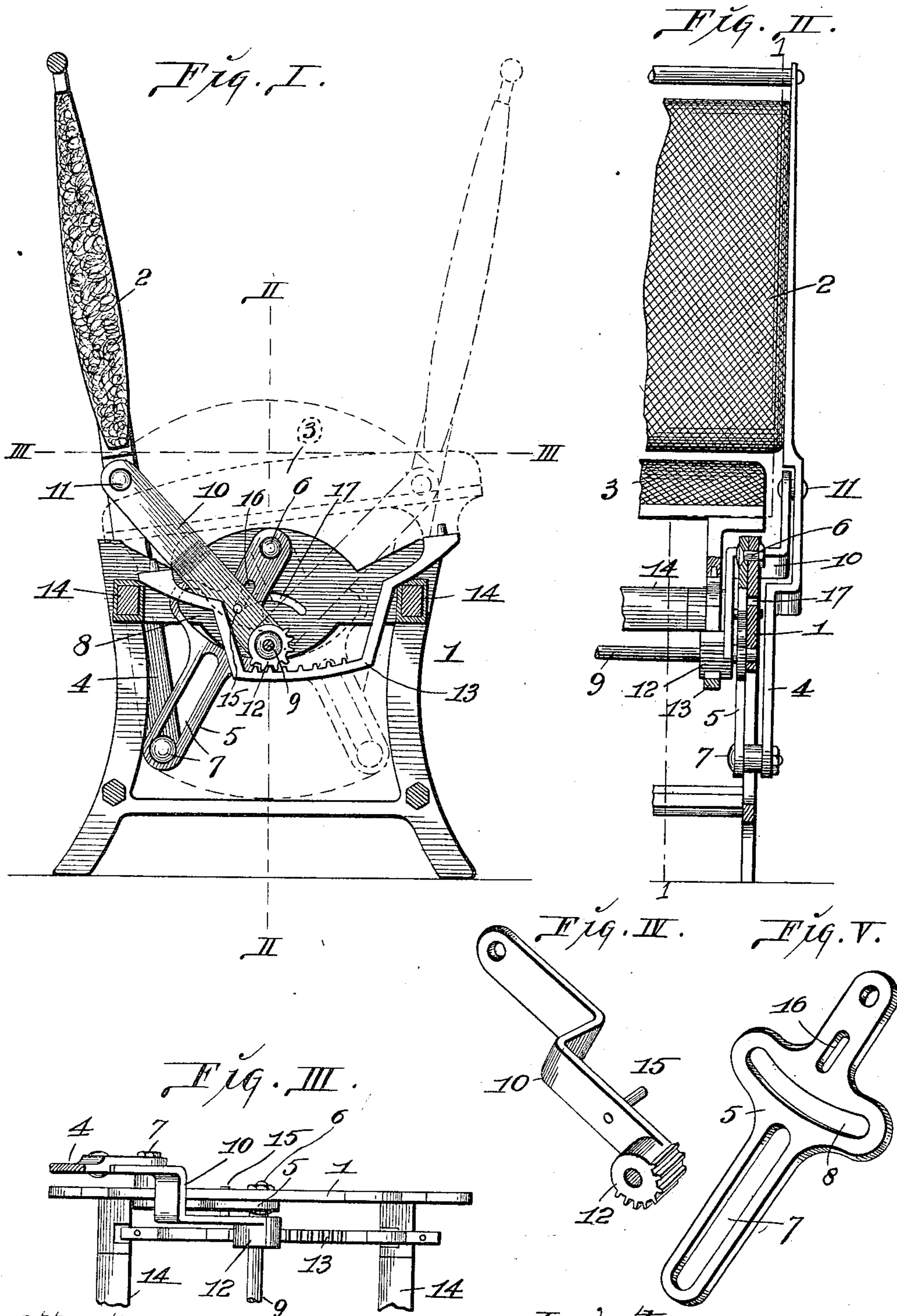
No. 670,190.

Patented Mar. 19, 1901.

H. WITTE.  
CAR SEAT.

(Application filed Dec. 17, 1900.)

(No Model.)



attest:—  
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[Signature]

Inventor:—  
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# UNITED STATES PATENT OFFICE.

HUBERT WITTE, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE ST. LOUIS CAR COMPANY, OF SAME PLACE.

## CAR-SEAT.

SPECIFICATION forming part of Letters Patent No. 670,190, dated March 19, 1901.

Application filed December 17, 1900. Serial No. 40,065. (No model.)

*To all whom it may concern:*

Be it known that I, HUBERT WITTE, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Car-Seats, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to certain improvements in "walk-over" car-seats; and it consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a vertical transverse section of the seat, taken on line I I, Fig. II. Fig. II is a detail vertical longitudinal section taken on line II II, Fig. I. Fig. III is a detail horizontal section taken on line III III, Fig. I. Fig. IV is a perspective view of one of the reversing-levers. Fig. V is a perspective view of one of the reversing-links.

But one end of the seat is shown, the other end being a duplicate thereof.

1 represents the framework of the seat, 2 the back, and 3 the cushion. The back has downwardly-extending end brackets 4.

At each end of the seat there is a link 5, pivoted to the frame of the seat at 6 and the lower end of which has a slot-and-pin connection 7 with the bracket 4. The middle part of the link is widened out and provided with a slot 8 to permit the passage of a shaft or rod 9, that is journaled in the ends of the frame of the seat.

At each end of the seat is a lever 10, pivoted to the bracket 4 at 11 and the lower end of which is provided with a pinion 12, that engages a rack 13, that carries one end of the cushion 3, the rack resting on the cross-pieces 14 of the frame of the seat, as usual. The lower ends of the levers 10 receive the shaft 9 and are secured thereto. The levers being thus connected by the shaft cause the back to move without twisting when the force is exerted to one side of the middle of the back. The levers carry pins 15, that fit in slots 16, made in the links 5, and the inner ends of the pins fit in curved slots 17, made in the ends of the frame of the seat. As the back is reversed the pins 15 move in the slots 16 and 17 and the pins 7 move in their slots, the arrangement providing a construction that is inexpensive to make and which works smoothly and easily and is not liable to get out of order.

The pinions 12, working in the racks 13, cause the cushion to be tilted as the back is reversed to suit the position of the back.

I claim as my invention—

1. In a car-seat, the combination of a frame, a back provided with brackets, links provided with slots and pivoted to the frame and having slot-and-pin connections with the brackets, levers pivoted to the frame and to the brackets, and pins carried by the levers and fitting in slots in the links and in the frame, substantially as set forth.

2. In a car-seat, the combination of a frame, a back provided with brackets, links provided with slots and pivoted to the frame and to the brackets, levers pivoted to the frame, and to the brackets, and pins carried by the levers and fitting in slots formed in the links, substantially as set forth.

3. In a car-seat, the combination of a frame, a back provided with brackets, links provided with slots and pivoted to the frame and having slot-and-pin connection with the brackets, a through-shaft, levers pivoted to the frame by means of the through-shaft and the upper ends of which are pivoted to the brackets, and pins carried by the levers and fitting in slots formed in the links, substantially as set forth.

4. In a car-seat, the combination of a frame, a back provided with brackets, links provided with slots and pivoted to the frame and to the brackets, a through-shaft, levers pivoted to the brackets and secured at their lower ends to the shaft pivoted in the frame, pinions carried by the levers, cushion-supporting racks engaging said pinions, and pins carried by the levers and fitting in slots formed in the links, substantially as set forth.

5. In a car-seat, the combination of a frame, a back provided with brackets, links provided with slots and pivoted to the frame and having slot-and-pin connection with the brackets, levers pivoted to the brackets, and to the frame, a pin carried by the levers and fitting in slots formed in the links and in the frame of the seat, and cushion-supporting racks; said levers being provided with pinions engaging the cushion-supporting racks, substantially as set forth.

HUBERT WITTE.

In presence of—

E. S. KNIGHT,  
GEORGE J. KRUSCH.