No. 676,501. Patented June 18, 1901.

F. W. HUNTER.

SEAT.

(Application filed May 19, 1899.)

(No Model.)

Fig. 2

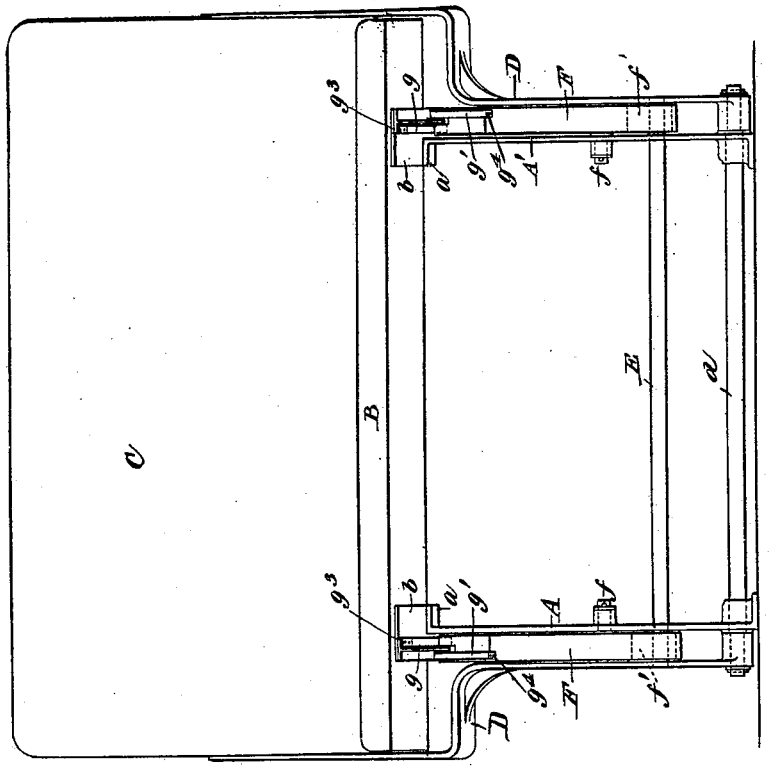
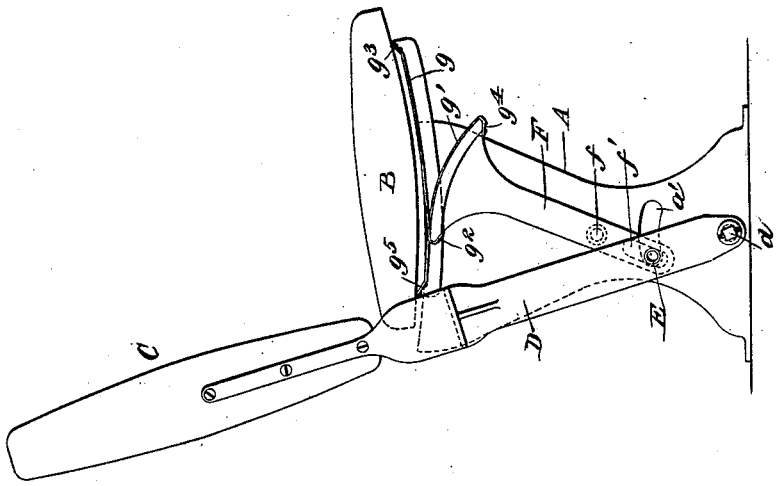


Fig. 1



Witnesses:
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UNITED STATES PATENT OFFICE.

FREDERIC W. HUNTER, OF CRANFORD, NEW JERSEY, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE HALE AND KILBURN MANUFACTURING COMPANY, OF PHILADELPHIA, PENNSYLVANIA.

SEAT.

SPECIFICATION forming part of Letters Patent No. 676,501, dated June 18, 1901.

Application filed May 19, 1899. Serial No. 717,524. (No model.)

To all whom it may concern:

Be it known that I, FREDERIC W. HUNTER, a citizen of the United States, residing at Cranford, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Seats, (Case D,) of which the following is a specification.

The invention is especially applicable to seats for railway and similar vehicles and will be described herein in that connection. Its object is to produce a seat consisting of but few parts, which shall be simple and durable in construction, inexpensive of manufacture, and which shall be easily and readily adjustable.

The invention concerns more particularly that class of seats occupying a fixed position and in which the seat-cushion and seat-back are adjusted or rearranged accordingly as the seat is designed to face one way or the other.

It further concerns that class of seats of the type mentioned in which mechanism is provided intermediate of the back and seat cushion whereby the movement of the former produces a corresponding movement of the latter. In seats of this class the seat-cushion is adapted for lateral adjustment in order that in one or the other position of these seat elements each will bear to the other the proper relation.

In carrying out my invention I employ a seat-supporting frame upon which is movably mounted a seat-cushion or the frame containing such a cushion. I also employ a seat-back provided with downwardly-extended pivoted supporting-arms secured at their ends either to the floor or to said frame. Intermediate of said supporting-arms and said cushion I provide means whereby the movement of the former will cause a corresponding movement of the latter. In this embodiment of my invention said mechanism consists of pivoted levers mounted upon said frame, the upper end of each being connected by means of flexible bands to said cushion or cushion-frame, the lower end of each coacting with the supporting-arms of the seat-back. I also provide a foot-rest extending between and connecting said back-supporting arms and when moved thereby coacting with said pivoted levers to effect the shifting of the seat.

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

Figure 1 is a side elevation, and Fig. 2 an end elevation, of a seat embodying my invention.

Referring in detail to the drawings, A A′ designate upright supporting members of the seat-frame. These may, if desired, be secured to the floor at their lower ends. Their upper ends are preferably flanged inwardly at *a* to support the cushion B or the frame in which said cushion may be placed. The under side of said cushion, as shown in Fig. 2, is provided with friction-plates *b*.

C designates the seat-back. This is provided with downwardly-extended supporting-arms D, pivoted at their lower ends upon the rod *d*, extending from one end to the other of the seat-frame and passing through perforations in the members A A′ of that frame.

E designates the foot-rest. This extends between and is secured at its ends to the supporting-arms D and operates through elongated slots *a′* in the members A A′ of the frame.

F F designate seat-shifting levers. Each of these is pivoted at *f* to the frame. The lower end of each lever is provided with an elongated slot *f′*, through which protrudes the foot-rest E. The upper end of each lever F is preferably segmental in form and is connected with the seat-cushion B or cushion-frame by means of bands *g g′*. One end of the band *g* is secured at g^2 to the segmental end of the lever F and at its other end, at g^3, to the under side of the seat-cushion or cushion-frame. The band *g′* is secured at one end, at g^4, to the segmental end of the lever F and at its other end, at g^5, to the under side of the seat-cushion or cushion-frame.

The operation of the seat above described will be readily understood from the drawings. In Fig. 1 the seat occupies one of its two positions. To reverse it, it is only necessary to move the seat-back C to the right. Due to this movement the foot-rest E will also of

course be moved in the same direction, thereby moving the levers F upon their fulcrums and effecting through the belts g g' the shifting of the cushion.

I do not desire to limit myself herein to the form of bands shown and described. These may be of any desired material and may, if desired, take the form of cords, chains, links, or levers.

Having now described my invention, what I claim is—

1. In a seat, the combination with a frame and movable cushion, of a seat-back, pivoted supporting-arms, pivoted levers connected with said arms, and flexible connections, between said levers and said cushion, substantially as described.

2. In a seat, the combination with a frame and movable cushion, of a seat-back, pivoted supporting-arms therefor, a foot-rest, pivoted levers connected with and operated by said arms and foot-rest, and flexible connections between said levers and said cushion, substantially as described.

3. In a seat, the combination with a frame and movable cushion, of a seat-back, pivoted supporting-arms therefor, a foot-rest, and levers pivoted to said frame, each connected at one end with said foot-rest, and crossed bands connecting the other ends of said levers, with said cushion, substantially as described.

4. In a seat, the combination with a frame and movable cushion, of a seat-back, supporting-arms therefor, a foot-rest, pivoted levers movable with said foot-rest, and flexible connections between said levers and said cushion, substantially as described.

This specification signed and witnessed this 10th day of May, 1899.

FREDERIC W. HUNTER.

Witnesses:
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S. O. EDMONDS.