No. 676,500. Patented June 18, 1901.

F. W. HUNTER.

SEAT.

(Application filed May 19, 1899.)

(No Model.)

Fig. 2

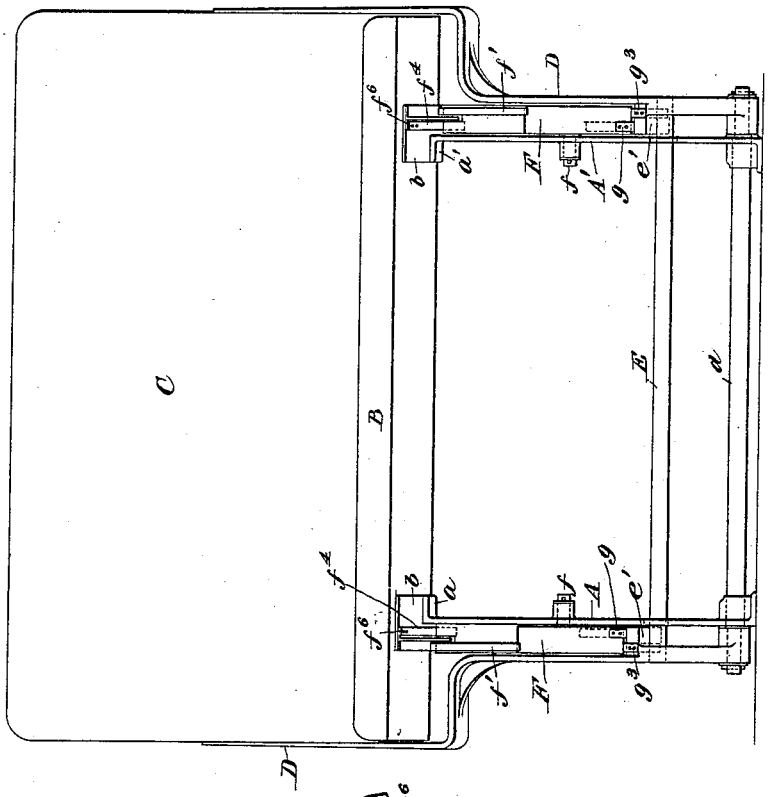
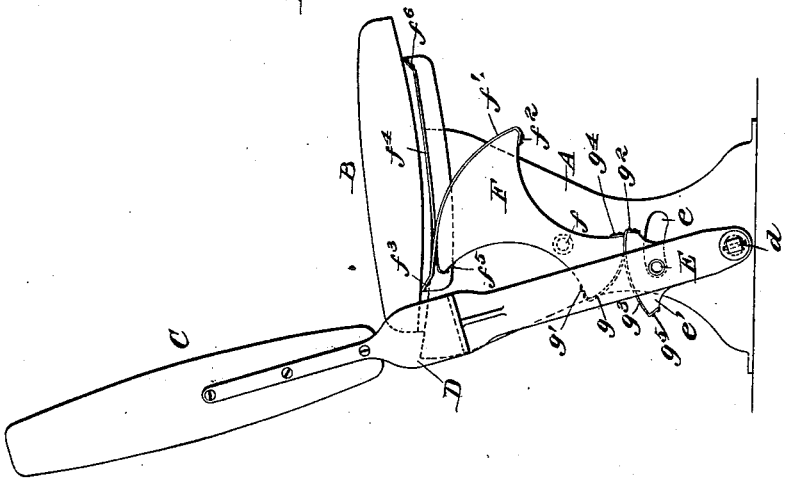


Fig. 1



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. 676,500, dated June 18, 1901.

Application filed May 19, 1899. Serial No. 717,523. (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 C,) 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 type 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 supporting-frame upon which is arranged a seat-cushion. This cushion or the frame containing the cushion is capable of transverse movement. I also employ a seat-back provided with downwardly-extending pivoted end arms, and intermediate of said end arms and said cushion I employ mechanism whereby the movement of the former will cause a corresponding movement of the latter. In this embodiment of the invention said mechanism consists of double segments, one at each end of the supporting-frame. These segments are provided with bands of any suitable material, such as leather or steel, connecting said segments both to the seat-cushion and to the back-supporting arms or an appurtenance thereof. The movement of the back-supporting arms causes a corresponding movement of the double segments, and the latter through their connecting-bands cause a corresponding movement of the seat-cushion.

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 a supporting-frame comprising two upright members. The lower portions of these may, if desired, be secured to the floor in the usual manner. The upper portions are flanged inwardly toward each other at *a a′* and support the seat-cushion B or the frame in which said cushion is placed. In the drawings I have shown the under side of said cushion as provided with friction-plates *b*.

C designates the seat-back. This is supported upon end arms D, pivoted at their lower ends upon the rod *d*, passing through the members A A′ of the frame.

E designates a foot-rest, herein shown as a pipe or rod extending between and connecting the end arms D of the seat-back and operating through elongated slots *e* in the supporting members A A′ of the frame. The end surfaces of each segment F are preferably, but not necessarily, concentric. The upper end surface of each segment F is provided with a band *f′*, secured at f^2 to the segment and at f^3 to the under side of the cushion or cushion-supporting frame, and with a band f^4, secured at f^5 to the segment and at f^6 to the under side of the cushion or cushion-supporting frame. The lower end of each segment is adapted to coact with the correspondingly-shaped surface of a segment *e′*, secured to or formed integral with each of the end arms D. This coaction is obtained by means of two bands *g* and g^3. The former is secured at one end at *g′* to the segment F and at its other end at g^2 to the segment *e′*. The band g^3 is secured at one end at g^4 to the segment F and at its other end at g^5 to the segment *e′*.

The operation of the seat above described will be readily understood. Fig. 1 illustrates the seat in one of its two positions. In order to reverse the seat, it is only necessary to move the back C to the right. As this is

done the double segment F is by means of the bands g and g^3 turned upon its pivot f, thereby through the bands f' and f^4 causing the shifting of the cushion or cushion-supporting frame B.

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 supporting-frame and movable cushion, of a seat-back, pivoted supporting-arms, a foot-rest extending between and connecting said arms, pivoted double segments and connections between said segments and said arms and cushion, substantially as described.

2. In a seat, the combination with a supporting-frame and movable cushion, of a seat-back, pivoted supporting-arms, a foot-rest extending between and connecting said arms, pivoted double segments, a connection between said segments and said foot-rest, and a connection between said segments and said cushion, substantially as described.

3. In a seat, the combination with a supporting-frame and movable cushion, of a seat-back, pivoted supporting-arms therefor, and pivoted double segments connected at one end with said cushion, and at the other end with said supporting-arms, whereby the movement of said seat-back will cause corresponding movement of said segments and cushion, substantially as described.

4. In a seat, the combination with a supporting-frame and movable cushion, of a seat-back, pivoted supporting-arms therefor, pivoted segments and bands connecting one end of each segment with said movable cushion, and its other end with one of the supporting-arms, substantially as described.

5. In a seat, the combination with a supporting-frame and movable cushion, of a seat-back, pivoted supporting-arms therefor, and pivoted segments operated by said arms, each of said segments being provided with bands connected with said cushion, and with bands connected with said supporting-arms whereby the movement of said seat-back and segments will cause a corresponding movement of said cushion, substantially as described.

6. In a seat, the combination with a supporting-frame and movable cushion, of a seat-back, pivoted supporting-arms therefor, a foot-rest extending between and connecting said arms, pivoted segments, bands connecting the upper ends of said segments with said movable cushion, and bands connecting the lower ends of said segments with said supporting-arms, 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.