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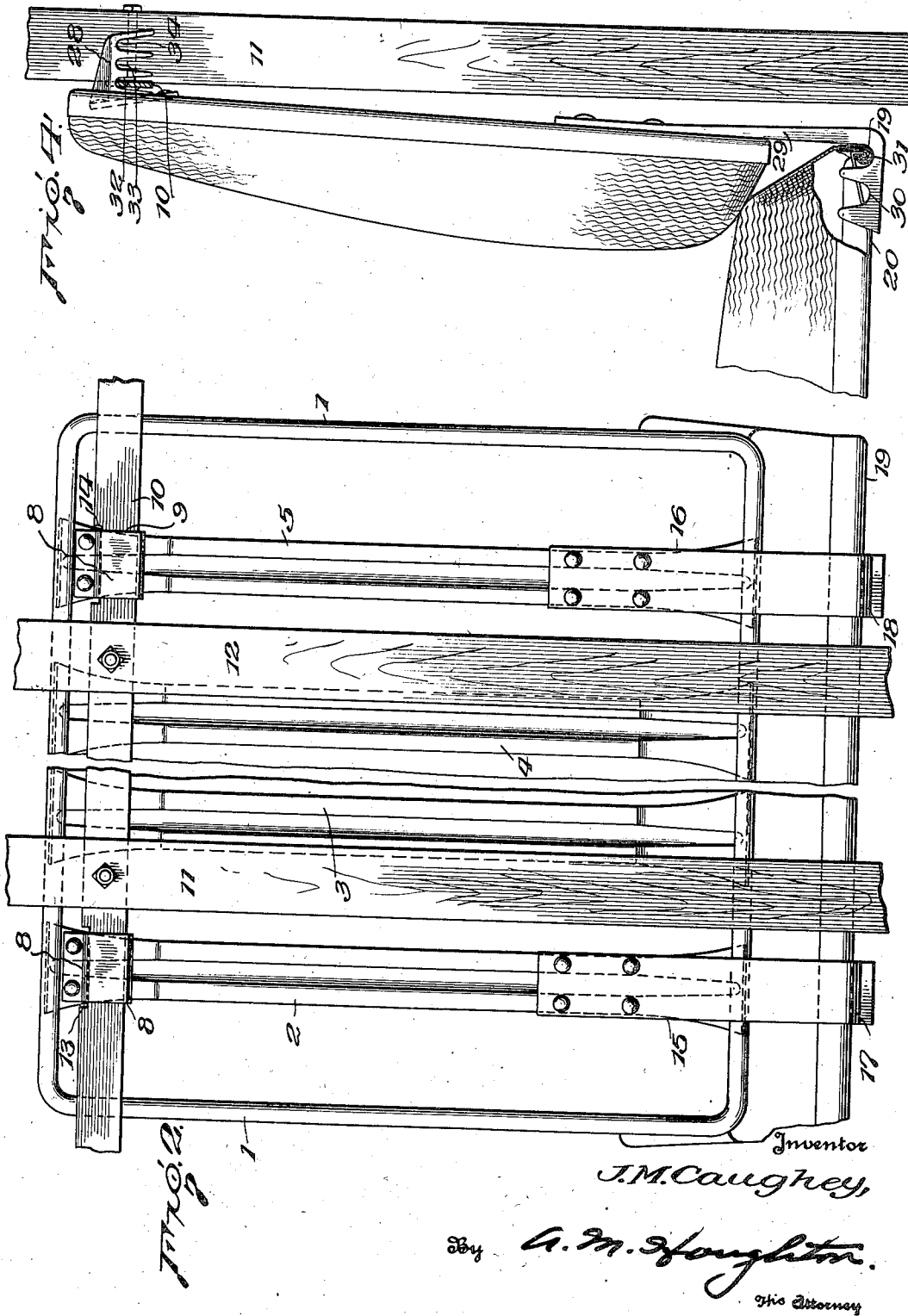
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VEHICLE CUSHION SEAT AND THE LIKE

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2 Sheets-Sheet 2



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VEHICLE CUSHION SEAT AND THE LIKE

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4 Claims. (Cl. 155—116)

This invention relates to vehicle cushion seats and the like; and it comprises a vertical support for the back and a horizontal support for the seat, the vertical support carrying means for engaging cooperating means on the back at a relatively high point whereby the back may be hung on the vertical support, means on the horizontal support for engaging and cooperating with the seat near its forward end and means associated with the lower portion of the back and the rear portion of the seat for adjustably securing the two together; all as more fully hereinafter set forth and as claimed.

It is a desideratum in the art to which this invention relates to provide adjustable seats which are strong and durable, yet simple in construction and which are comfortable in use in different positions. It is an object of my invention to provide such a seat and in accordance with a specific form of the invention I provide a seat which is supported at the rear by the back, the back in turn being hung from a vertical seat support and the front of the seat being arranged for adjustable support by means of a riser or the like extending from the floor of the vehicle whereby means are provided for varying the position of the back without altering the position of the seat and for altering the position of the seat without altering the position of the back.

These and other objects are accomplished by the special arrangement hereinafter described permitting great flexibility as to the position of the seat and the inclination of the back with respect to the seat through the employment of relatively few parts which may be exceedingly durable and simple in construction.

In the accompanying drawings I have shown two forms of a specific embodiment of my invention.

Fig. 1 is a side elevation of a seat and back, parts being broken away to show more clearly one embodiment of my invention;

Fig. 2 is a rear view of the back, showing the arrangement of the hangers thereon and how the back is carried by the seat supporting frame;

Fig. 3 is a section taken on the line 3—3 of Fig. 1;

Fig. 4 is a side elevation of a seat and back showing slightly modified forms of hangers;

Fig. 5 is a perspective view of the modified hanger which is secured to the lower part of the back;

Fig. 6 is a perspective view of the modified upper hanger which is secured to the upper part of the back; and

Fig. 7 is a perspective view of the plate showing the holes punched therein for adjusting the seat with respect to the riser.

In the drawings in which like reference numerals indicate corresponding parts throughout the several views, 1 is a border frame, preferably of metal, for a back cushion carrying coil supporting slats 2, 3, 4 and 5. The coil supporting slats carry coil springs 6 which are suitably covered with upholstery 7 as shown in Fig. 1. Two metal hooks or hangers 8 and 9 are bolted to the coil supporting slats 2 and 5 respectively near their upper extremities and rest on cross bar 10 bolted to upright supports 11 and 12. The cross bar is provided with notches 13 and 14 adapted to carry the hangers 8 and 9 respectively. Two hangers 15 and 16 are bolted or otherwise securely fastened near the lower extremities of coil supporting slats 2 and 5 respectively and have hooked portions 17 and 18 respectively extending a suitable distance below the lowest portion of the back border frame in order to support the rear of a lower seat cushion border frame 19 as shown in the drawings. The seat cushion border frame 19 carries coil supporting slats similar to 2, 3, 4 and 5, one of which is shown at 20 in Figs. 1 and 4. Coil springs 21 are carried by coil supporting slat 17 and the other like slats in the seat and are covered with upholstery 22.

The front of the seat cushion has a plate 23 welded or otherwise securely fastened to the coil supporting slats 20 and 25 and provided with a series of punched holes 24 as shown in Figs. 3 and 7. The front of the seat cushion rests on a floor riser 26 constructed of either metal or wood and having fastened thereto a dowel pin 27 on its upper surface. The dowel pin 27 is adapted to fit in any of the holes 24 in plate 23 thus preventing the seat from sliding backward or forward when in position, and allowing longitudinal adjustment.

Figure 1 shows the cushion and back in the rearmost position. To change the position of the seat, one may move the front part of the seat cushion forward by lifting it until the plate 23 is clear of the dowel 27 and allowing it to slide forward so that the dowel 27 can slip in one of the rearward holes punched in plate 23. The seat, when moved forward, carries the back cushion with it by virtue of the hooked portions 17 and 18 of the hangers 15 and 16 engaging the border frame 19 of the seat cushion. In this way the cushion seat may be pulled forward through a distance depending upon the number and spacing of holes 24 in plate 23; the back

cushion following the seat, and a series of different positions being obtained at will.

A slightly modified form of hook or hanger containing a plurality of notches 32, 33 and 34 for engagement with the notches 13 and 14 on the cross bar 10 is shown at 28 in Figs. 4 and 6. By means of the plurality of notches in the modified hanger 28 the back may be tilted forwardly, and kept in position, through a distance corresponding to the number and spacing of the notches 32, 33 and 34. To accomplish this the driver lifts the back until the hanger 28 is clear of the cross bar 10 and then allows the back to come forward after which he allows the cross bar to slip into a different notch in the hanger 28.

A modification of the lower hangers 15 and 16 is shown at 29 in Figs. 4 and 5. In this modification the front portion of the seat carries a perforated plate to cooperate with a floor riser and dowel pin, the arrangement of the plate and riser being similar to that shown in Fig. 1, but the hanger 29 is provided in addition with a plurality of notches 30 and 31 to permit of forward movement of the seat cushion without carrying the back cushion with it.

The additional notches in the two modified forms of hanger permit of more adjustment between the back and the seat and enable the driver to tilt the top of the back forwardly without varying the position of the seat cushion or vice versa.

The usual supports under the seat cushion are eliminated due to the fact that the rear of the seat cushion is supported by the back through provision of the hangers 15 and 16. This makes an exceedingly simple and economical design in that should the gasoline tank or tool kit happen to be under the seat, as is frequently the case, particularly with commercial vehicles, the seat may be pulled forward and lifted up out of the hangers in order to make the tool kit or gasoline tank easily accessible.

What I claim is:—

1. Adjustable seating means for vehicles comprising a back support, a back pivotally supported near its upper end by said back support, means attached to the back comprising hangers having a plurality of rounded notches adapted to

pivotally and removably support the rear portion of a seat in a number of different longitudinal positions at the lower portion of the back, a seat supported at the rear by said means, a support for the forward portion of the seat and complementary means attached to said forward seat support and the forward portion of said seat comprising a pin and a plate provided with a series of holes each fitting said pin and adapted to removably hold the front of said seat on said front support in a number of different longitudinal positions.

2. Seat construction for automobiles and the like comprising a back support, a seat back, means connecting the upper end of the seat back and the back support for longitudinal adjustment of the seat back with respect to the back support, a seat, a support for the forward portion of the seat, and means connecting the lower portion of the back with the rearward portion of the seat for hanging the seat to the back in any one of a plurality of longitudinally spaced positions of the seat with respect to the back.

3. Seat construction for automobiles and the like comprising a back support, a seat back, means connecting the upper part of the seat back and the back support for longitudinal adjustment of the seat back with respect to the back support, a seat, a support for the forward portion of the seat, means connecting the forward portion of the seat and the seat support for longitudinal adjustment of the seat with respect to the seat support, and means connecting the lower portion of the seat back with the rearward portion of the seat for supporting the rearward portion of the seat by the seat back in any one of a plurality of longitudinally spaced positions of the seat with respect to the back.

4. In a cushion seat for automobiles and the like wherein the rear of the seat is supported by the seat back, the front of the seat is supported by a seat support, and the seat back is supported from a seat back support, means whereby said seat back and said seat may be adjusted longitudinally with respect to each other and with respect to said supports.

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