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AUXILIARY SEAT FOR AUTOMOBILES.

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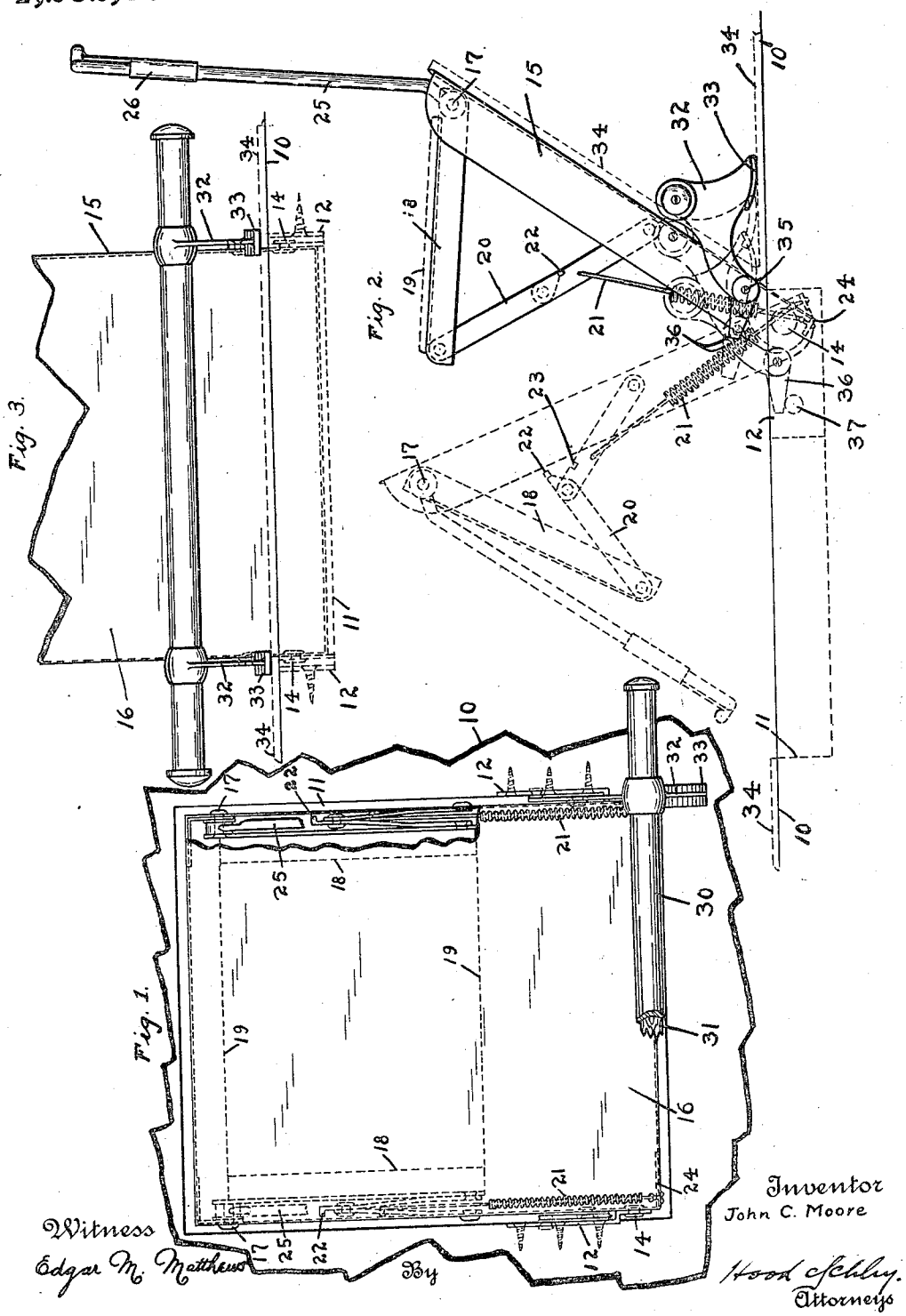


Fig. 1.

Fig. 2.

Fig. 3.

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AUXILIARY SEAT FOR AUTOMOBILES.

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To all whom it may concern:

Be it known that I, JOHN C. MOORE, a citizen of the United States, residing at Connersville, in the county of Fayette and State of Indiana, have invented a new and useful Auxiliary Seat for Automobiles, of which the following is a specification.

It is the object of my invention to provide a folding seat, particularly as an automobile extra seat, which is both comfortable and strong when in use and may be folded down into the floor in a very narrow space when not in use.

The accompanying drawing illustrates my invention. Figure 1 is a plan of the seat folded into the floor with some parts broken away in order better to show the construction; Fig. 2 is a side elevation of the seat open, also showing in dotted lines the seat partly closed, and in dash lines the foot rail in fully closed position; and Fig. 3 is a fragmentary rear elevation of the lower part of the seat open.

Within the floor 10, which may be the floor of the tonneau of an automobile, I provide a shallow rectangular pocket 11, into which the seat fits when folded. On each side of this pocket 11 near the rear I attach to the longitudinal member at the side of the pocket an anchor plate 12, as by screws, and on the rear inset ends of these supporting plates I attach by pivotal rivets 14 the ends of flanges 15 of the main supporting member 16 of the seat. This main supporting member 16 is channel shaped, so that its main portion extends the full width of the seat and of the pocket 11 and the flanges 15 are at the two sides for strength, such flanges projecting down into the pockets 11 when the seat is folded. Pivoted on pivot pins 17 to the opposite ends of the flanges 15 from the pivotal rivets 14 are two side angle bars 18 for the seat proper, on which a seat 19 of any sort is mounted. The free ends of the angle bars 18 are connected to intermediate points on the corresponding flanges 15 by toggles 20, each of which is provided with a tension spring 21 which tends to swing it to the open position, with the two parts of the toggle in alinement, as shown in full lines in Fig. 2, a finger 22 on one part of the toggle coöperating with a notch 23 on the other to limit this spring in obtaining movement of the toggle. Springs 21 act between the toggles 20 and lugs 24 carried by the ends of the members 16. The action of the spring 21 serves to prevent the seat 19 from dropping when in use. Also mounted on the pivot pins 17 are the side arms 25 of the seat back, which side arms may be connected at the top and provided with any sort of back 26 which may be convenient.

A foot rail, 30, which preferably consists of a metal tube having a wood filler 31 is mounted in two foot rail supports 32, each of which has at the rear a foot 33 which rests upon the floor 10, or the carpet 34 on such floor, and at the front is pivotally connected by a pivot pin 35 to one of the flanges 15. Each foot rail support 32 also has a finger 36 projecting forward beyond its point of pivotal attachment, for engagement when the seat is folded with a pin 37 projecting inward from the associated anchor plate—as shown in the dash line position in Fig. 2.

In operation, when the seat is open, as shown in full lines in Fig. 2, the rear face of the main supporting members 16 (or the carpet 34 thereon) rests against the foot rail 30 and its supports 32, and the feet 33 rest on the carpet 34 on the floor 10, so that the seat is supported between the feet 33 and the pivot rivets 14. In this condition, the toggle 20 is prevented from collapsing by the springs 21, which also assist in opening the seat by snapping the toggles 20 into alinement. When it is desired to fold the seat down into the pocket 11, the toggles 20 are broken and the seat 19 and its angle bars 18 are folded down into the space between the flanges 15, passing through the position indicated in dotted lines in Fig. 2, and the back 26 with its side arms 25 is also folded down between such flanges, also passing through the dotted line position shown, and then the main supporting member 16 is swung about the pivotal rivets 14 until it lies within the pocket 11, at which time the carpet 34 on the back (now become the top) of the main supporting member 16 is flush with the carpet 34 on the floor 10. As the seat has thus been swung down into the folded position, the foot rail 30 hase been moved forward, until the fingers 36 come into engagement with the pins 37, which engagement holds the foot rail against being tilted forward, so that the feet 33 of the supports 32 firmly engage the carpet 34. When it is desired to open the seat for use, the main supporting member 16 is swung

out of the pocket 11 into the full line position shown, and the back 26 and seat 19 are swung about the pivot pins 17 to such full line position, the toggles 20 snapping into place by the action of the springs 21.

I claim as my invention:

1. A folding seat, comprising a channel shaped main supporting member pivotally mounted at one end, a seat pivotally mounted on said member near the other end thereof, a toggle connecting the free end of the seat with said main supporting member, and a rest pivotally mounted on said main supporting member and having a foot for bearing against the floor, said rest being arranged to engage said main supporting member at another point than its point of pivotal connection therewith so that when the seat is opened it is supported between the foot of said rest and the pivotal point on which said main supporting member is mounted.

2. A folding seat, comprising a main supporting member pivotally mounted at one end, a seat pivotally mounted on said member near the other end thereof, a toggle connecting the free end of the seat with said main supporting member, and a rest pivotally mounted on said main supporting member and having a foot for bearing against the floor, said rest being arranged to engage said main supporting member at another point than its point of pivotal connection therewith so that when the seat is opened it is supported between the foot of said rest and the pivotal point on which said main supporting member is mounted.

3. A folding seat, comprising a main supporting member pivotally mounted at one end, a seat pivotally mounted on said member near the other end thereof, a toggle connecting the free end of the seat with said main supporting member, a spring tending to straighten such toggle to swing said seat to working position, and a rest pivotally mounted on said main supporting member and having a foot for bearing against the floor, said rest being arranged to engage said main supporting member at another point than its point of pivotal connection therewith so that when the seat is opened it is supported between the foot of said rest and the pivotal point on which said main supporting member is mounted.

4. A folding seat, comprising a main supporting member pivotally mounted at one end, a seat pivotally mounted on said member near the other end thereof, a toggle connecting the free end of the seat with said main supporting member, a back also pivotally mounted on said main supporting member on the same pivots on which said seat is mounted, and a rest pivotally mounted on said main supporting member and having a foot for bearing against the floor, said rest being arranged to engage said main supporting member at another point than its point of pivotal connection therewith so that when the seat is opened it is supported between the foot of said rest and the pivotal point on which said main supporting member is mounted.

5. A folding seat, comprising a main supporting member pivotally mounted at one end, a seat pivotally mounted on said member near the other end thereof, a toggle connecting the free end of the seat with said main supporting member, a back also pivotally mounted on said main supporting member, and a rest pivotally mounted on said main supporting member and having a foot for bearing against the floor, said rest being arranged to engage said main supporting member at another point than its point of pivotal connection therewith so that when the seat is opened it is supported between the foot of said rest and the pivotal point on which said main supporting member is mounted.

In witness whereof I, JOHN C. MOORE, have hereunto set my hand at Connersville, Indiana, this first day of November, A. D. one thousand nine hundred and seventeen.

JOHN C. MOORE.

Witnesses:
P. A. HANSON,
EMERY HUSTEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."