

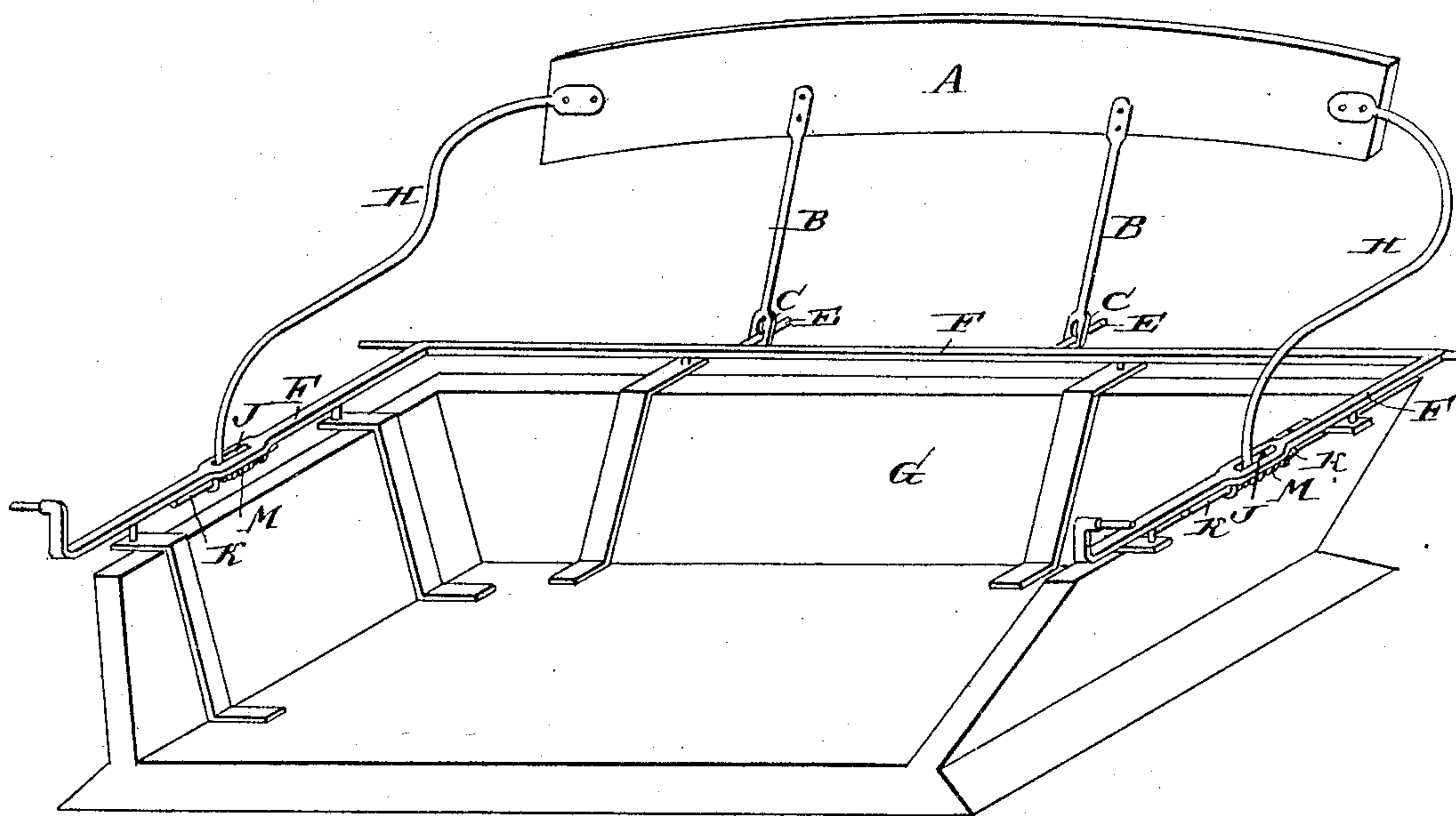
(No Model.)

C. MORGAN.  
CARRIAGE SEAT.

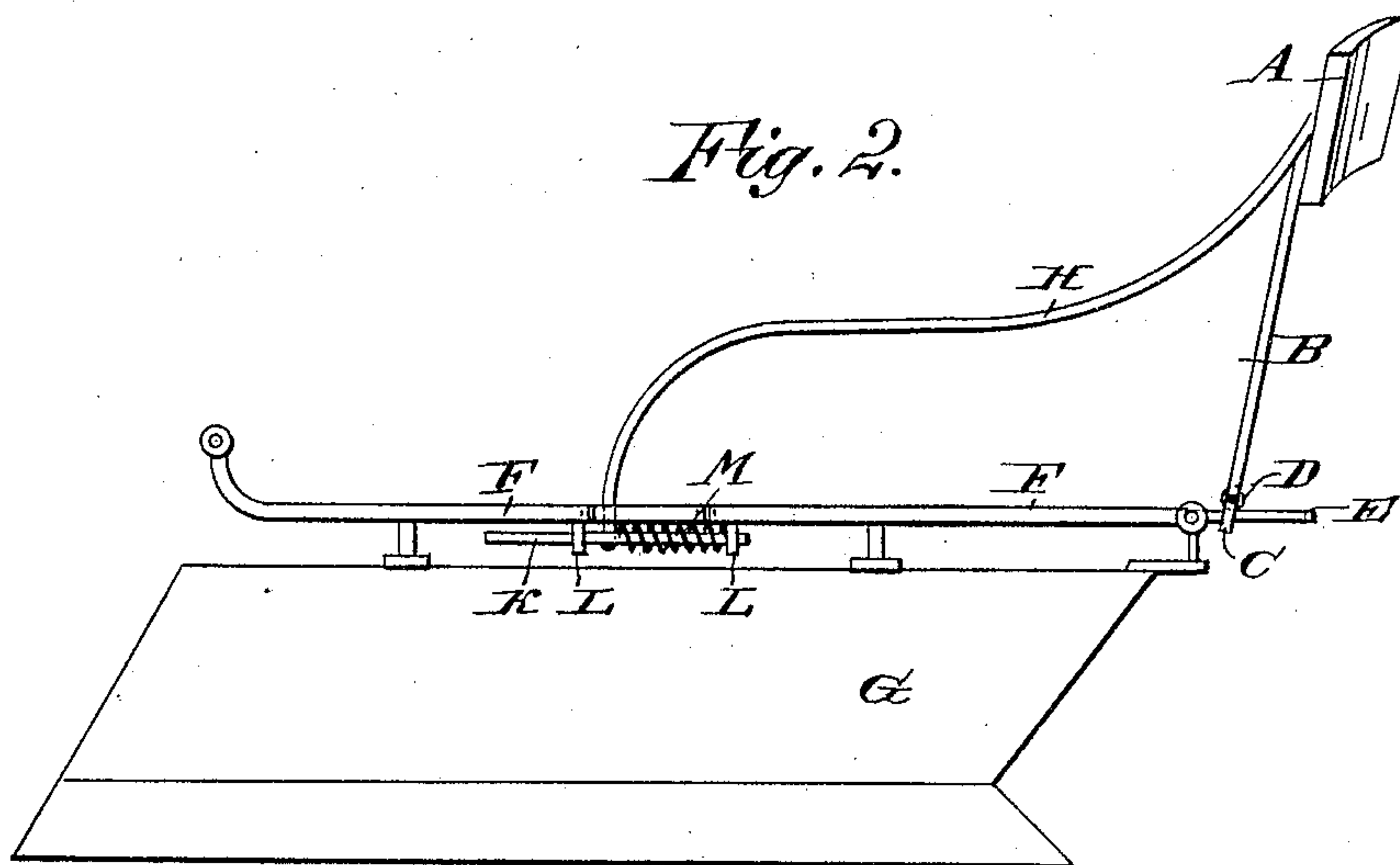
No. 321,131.

Patented June 30, 1885.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

CHARLES MORGAN, OF BRIDGEWATER, NOVA SCOTIA, CANADA.

## CARRIAGE-SEAT.

SPECIFICATION forming part of Letters Patent No. 321,131, dated June 30, 1885.

Application filed October 13, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES MORGAN, of Bridgewater, in the county of Lunenburg, Nova Scotia, Canada, have invented a new and Improved Sliding Carriage-Seat Back, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved carriage-seat back, which is adapted to slide back a short distance when the carriage receives a sudden jerk or shock, thus easing the back of the person occupying the seat.

The invention consists in the combinations of parts substantially as hereinafter fully set forth and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of my improved sliding carriage-seat back. Fig. 2 is a side view of the same.

From the back board or bar, A, of the carriage-seat back two arms, B, project downward, and are provided with eyes C in their lower ends, in the tops of which eyes friction-rollers D are journaled. Short rods E, projecting toward the rear from a metal rod frame, F, on the top edges of the seat G, pass through the eyes C, the rollers D resting on the said rods. The curved seat side bars, H, are secured to the ends of the board A, and their lower ends pass through longitudinal vertical slots J in the side pieces of the frame F, and below the said side pieces rods K, parallel with the side pieces, are secured on the ends of the bars H, and are guided in apertured lugs L, projecting from the bottom surfaces of the said side bars of the frame. A spiral spring, M, surrounds each rod K, between the rear lug, L, and the lower end of the corresponding side bar, H. The frame F is provided with pivots for the carriage-top. When the carriage wheel strikes a stone, suddenly runs in a rut, passes over a bridge, or when the horse starts suddenly, the carriage is jerked forward or stopped very suddenly for a moment, whereby the occupant is thrown backward and against the back bar, A, which slides back about two inches. The springs M are compressed and the shock broken. The

springs then expand and move the seat back toward the front again. The back of the occupant of the seat is thus eased and the seat made more convenient.

The frame F may be so arranged that the rods E can project forwardly instead of rearwardly, as shown, the rollers D in this case being forward of the back bar of said frame.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the seat, of the frame F on the same, the back bar, A, the side bars, H, secured to the ends of the same and passed through slots in the side bars of the frame F, the rods K, secured to the lower ends of the bars H and guided in pendants or brackets L L on the frame F, and of the spiral springs M, encircling said rods between the rear ones of said pendants and the lower ends of said bars, substantially as herein shown and described.

2. The combination, with the seat G, of the back bar, A, having downwardly-projecting arms B, terminating in eyes C, the rods E, projecting from a frame on the seat, and the bars H, secured on the ends of the bar A and arranged to slide in the side pieces of the frame F, the lower ends of said frame F being secured to rods K, sliding in brackets or pendants L of said frame and encircled by springs M between the rear one of said pendants and the lower ends of said bars, substantially as herein shown and described.

3. The combination, with the seat G, of the back bar, A, the downwardly-projecting arms B, terminating in eyes C, the rollers D, hung in said eyes of arms B, the rods E, projecting toward the front or rear from a frame and through the eyes of said arms on the seat, and of bars H, secured on the ends of the bar A and arranged to slide in the side pieces of the frame F, the lower ends of said bars H being secured to rods K, sliding in brackets L of the frame F, and encircled by springs between the rear ones of said brackets and the lower ends of said bars, substantially as herein shown and described.

CHARLES MORGAN.

Witnesses:

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