

(No Model.)

J. D. HOUGH.
SEAT BACK FOR ROAD CARTS.

No. 409,402.

Patented Aug. 20, 1889.

Fig. 1.

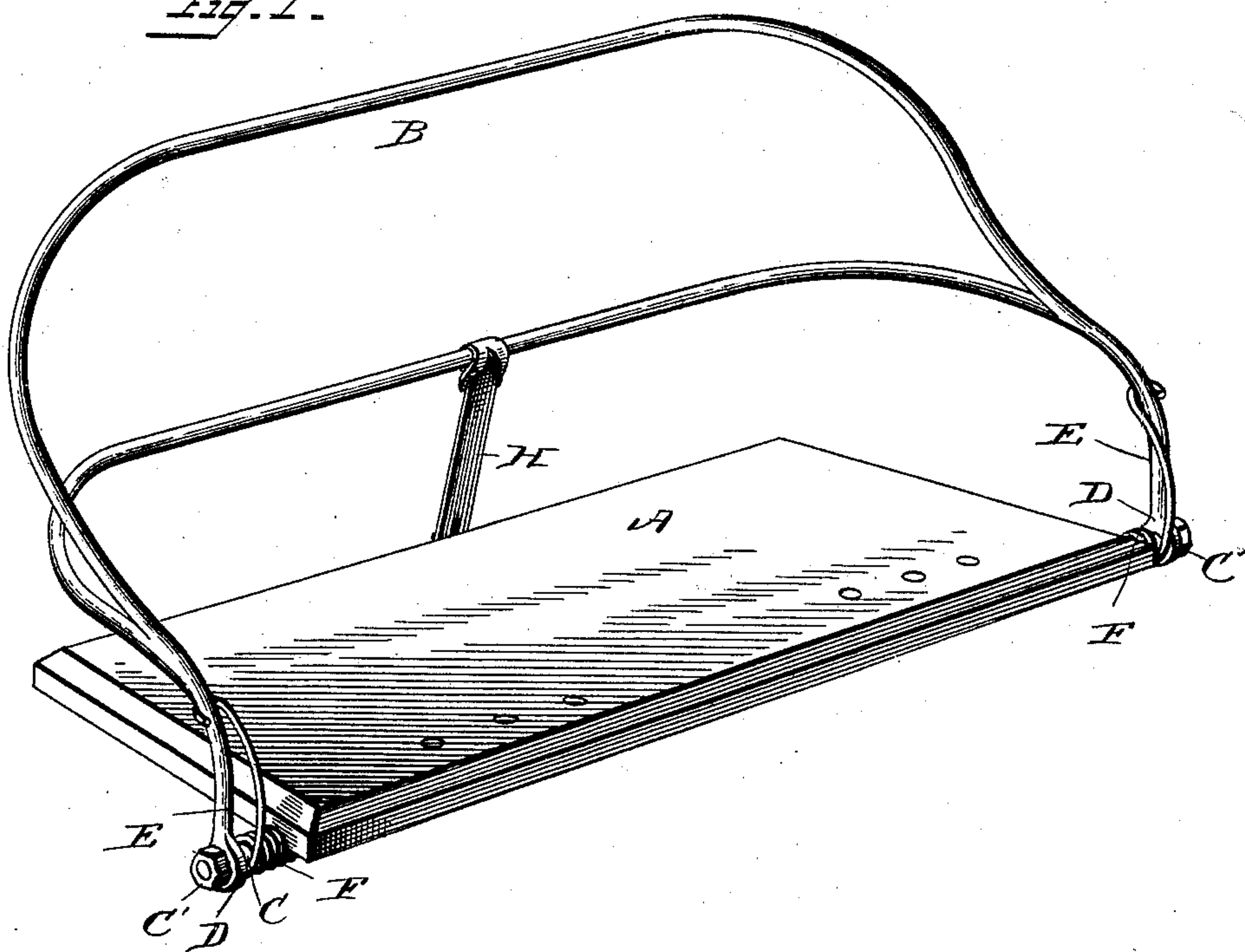
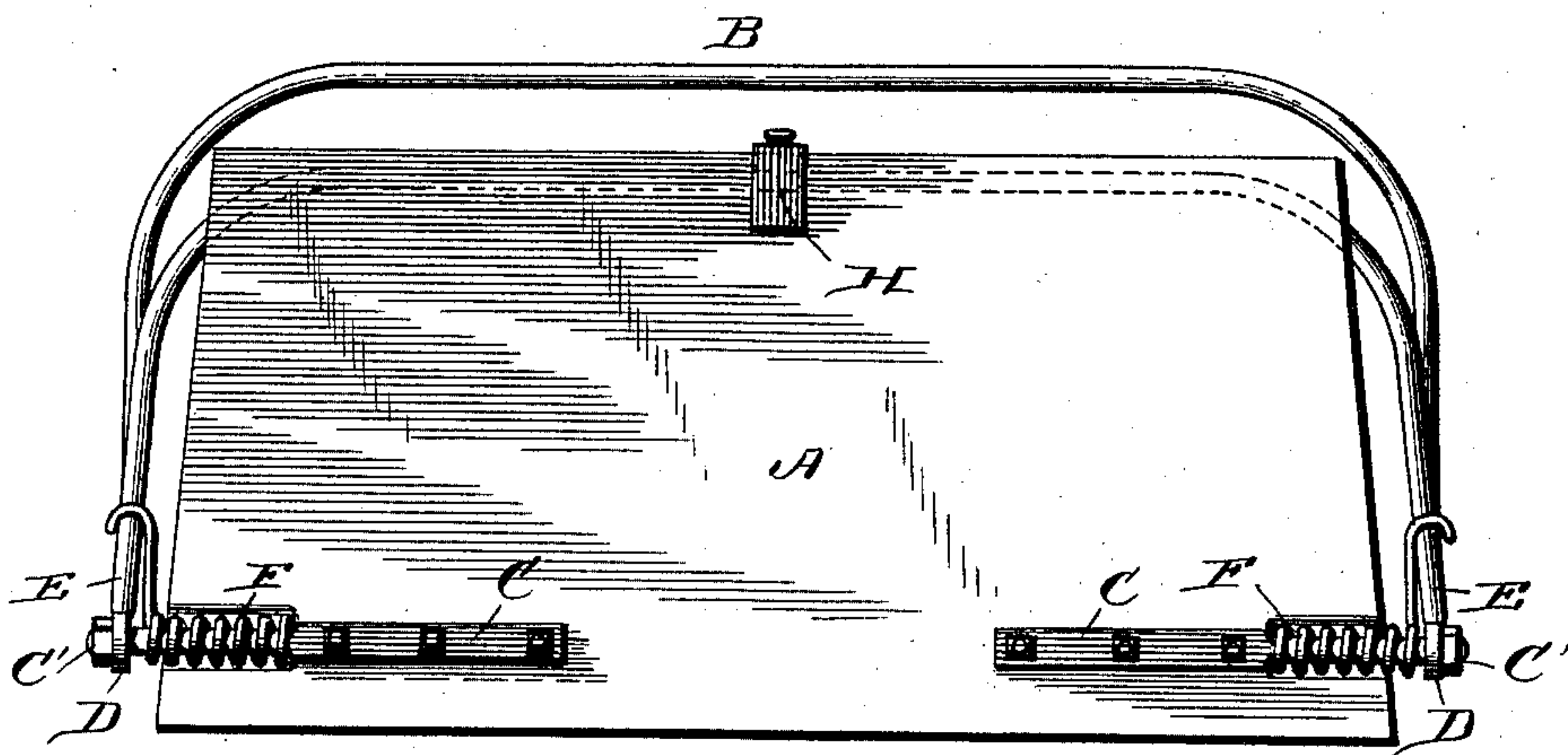


Fig. 2.



Witnesses

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JOHN D. HOUGH, OF LOWVILLE, NEW YORK.

SEAT-BACK FOR ROAD-CARTS.

SPECIFICATION forming part of Letters Patent No. 409,402, dated August 20, 1889.

Application filed June 22, 1889. Serial No. 315,200. (No model.)

To all whom it may concern:

Be it known that I, JOHN D. HOUGH, a citizen of the United States, residing at Lowville, in the county of Lewis and State of New York, have invented certain new and useful Improvements in Seat-Backs for Road-Carts, &c.; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in spring-backs for vehicle and other seats, and it has for its object to provide a spring-back which will be found especially adapted for use in connection with the seats of road-carts.

Owing to the sudden jolting movement that is imparted to the seat of the road-cart which is in common use, which is more especially noticeable in driving over rough and uneven surfaces, the use of a rigid back to the seat has been found to be attended with a degree of inconvenience which has frequently resulted in the entire abandonment of backs to seats used in this class of vehicles.

In the present invention I have undertaken to overcome the objection above noted by providing a seat-back which will readily yield to the sudden movements that may be imparted thereto by the jolting of the cart, and which will form a serviceable and easy rest for the back of the passenger. I accomplish these objects in the manner hereinafter described; and the invention in the present instance consists in the peculiar combinations and in the novel construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the accompanying drawings, and then specifically defined in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, like letters of reference indicating like parts throughout the several views, and in which drawings—

Figure 1 is a perspective view of a vehicle-seat embodying my invention. Fig. 2 is a bottom plan view of the same.

Reference now being had to the details of the drawings by letter, A designates the bottom of the seat, and B represents the back of the same. This back in the present instance I have shown as consisting of a frame of metal, the back proper being of basket or woven material, though any of the various forms of seats may be substituted for the form shown, if desired.

C C are metallic bars or rods which are securely bolted to the under side of the seat near its front edge, the ends of said bars being extended beyond the side edges of the seat-bottom, and over these extended ends of the bars are passed the eyes D upon the ends of the rods E, which are connected with the front edges of the back of the seat, and these rods are secured in position by means of the nuts C' upon the free ends of the rods, which ends are screw-threaded to receive said nuts.

F is a spiral spring arranged upon the rods C, one end of said spring being secured beneath the seat-bottom, while its opposite end is passed upward and terminates at the rear of the rod E a short distance above the seat-bottom.

It will be observed that the back of the seat is attached to the bottom at the front edges of the same, as described, and it will also be seen that when so attached the back of the seat will be tilted against the tension of the springs F whenever a sudden movement is imparted to the vehicle, and that the tension of said springs will also serve to cause the said back to at once resume its proper position.

In order to prevent or check in a measure the forward or return movement of the seat-back, a suitable guard-strap may be used in attaching the said back to the rear edge of the bottom of the seat, as shown at H in the drawings.

While I have described my invention as applied to the back of a road-cart, it is at once evident that the same may also be used in various connections—such, for instance, as in chairs and in various kinds of vehicles.

Having thus described my invention, what I

claim to be new, and desire to secure by Letters Patent, is—

The herein-described seat for vehicles, the same comprising in combination a seat
5 proper, a back pivotally connected to the seat by means of the rods C, the spiral springs F, arranged upon said rods with one end attached to the seat-bottom and the other to the supporting-rods of the back, and a guard-

strap connecting said back with the rear 10 edge of the seat, all arranged and operating substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN D. HOUGH.

Witnesses:

J. A. MARENESSE,
WM. MORSE.