

J. F. C. HOLLINGS.

Improvement in Seats for Cars, &c.

No. 133,102.

Patented Nov. 19, 1872.

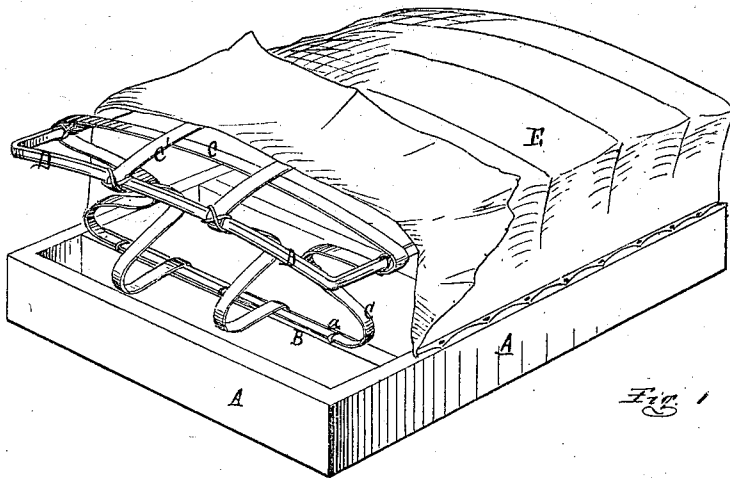


Fig. 1

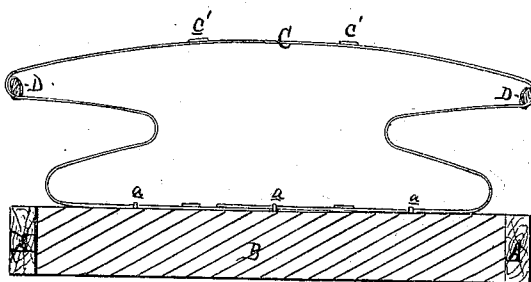


Fig. 2.

ATTEST:

*N. S. Sprague*

*H. F. Everts*

INVENTOR:

*J. F. C. Hollings*

*Per Atty.*

*N. S. Sprague*

# UNITED STATES PATENT OFFICE.

JOHN F. C. HOLLINGS, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-THIRD OF HIS RIGHT TO BENJAMIN M. TIFFANY, OF SAME PLACE.

## IMPROVEMENT IN SEATS FOR CARS, &c.

Specification forming part of Letters Patent No. 133,102, dated November 19, 1872.

*To all whom it may concern:*

Be it known that I, JOHN F. C. HOLLINGS, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Car-Seats; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of my improved car-seat, and Fig. 2 is a cross-section of the same.

Like letters refer to like parts in each figure.

The nature of this invention relates to an improvement in the construction of the seats of railway cars; and has for its object to secure great elasticity to the seat, with economy in cost and durability in wear. The invention consists in the peculiar arrangement of the springs, and the employment in connection with them of a cane-rod, or its equivalent, to form an edge for the cushion, to distribute the strain on all the springs, and to relieve the central part of each individual spring.

In the drawing, A represents the frame of my car-seat, having a series of cross-bars, B, mortised into the long sides thereof. To each of the cross-bars there is secured a steel spring, C, of the form shown in Fig. 2, by staples *a*, embracing the lower and horizontal ends of said springs. C' are springs of similar construction, two or more of which are longitudinally secured in the frame, crossing the others at right angles, their lower ends being secured

to the bars nearest the ends of the frame. D is an edge-frame, being a single or continuous rod of cane, rattan, or any equivalent material, lying in the bottom of the curve formed at the top corners of all the springs, being lashed in place with twine, and the whole is then covered with burlaps E, or other stout fabric, on which a thin layer of curled hair is laid, and inclosed with the outer covering of the cushion. The re-entering curves of the springs take and sustain the weight imposed and afford a strong but elastic support, while the upper and longer part, being very flexible, yields to the contour of the sitter. If preferred, the rod may be lashed to the outer upper corners of the springs. In either case, the rod should be wrapped with burlaps coiled around it and stitched fast. When the burlap covering is put on it is in turn stitched to the rod, so that the latter will be strongly lashed and seized to place.

This improvement is also applicable to sofas and couches, costing far less than the ordinary upholstered seats.

What I claim as my invention, and desire to secure by Letters Patent, is—

The construction and arrangement of the frame A, bars B, springs C C', edge-frame D, and covering E, substantially as and for the purpose set forth.

JOHN F. C. HOLLINGS.

Witnesses:

H. F. EBERTS,  
H. S. SPRAGUE.