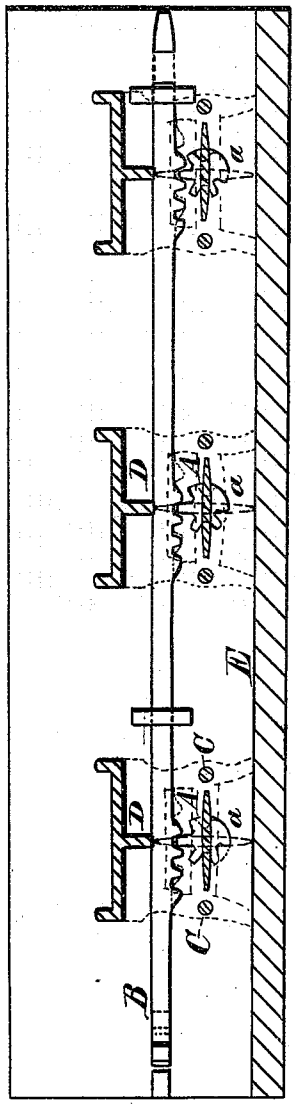
C. HOUGHTON.

CAR-SEATS.

No. 193,659. Patented July 31, 1877.



Witnesses:

A. B. Brown.

P. H. Smith

Inventor:

C. Houghton, By Atty

James S. Arnold

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UNITED STATES PATENT OFFICE.

CHILON HOUGHTON, OF ARLINGTON, MASSACHUSETTS.

IMPROVEMENT IN CAR-SEATS.

Specification forming part of Letters Patent No. **193,659**, dated July 31, 1877; application filed March 26, 1877.

To all whom it may concern:

Be it known that I, CHILON HOUGHTON, of Arlington, in the county of Middlesex, State of Massachusetts, have invented certain new and useful Improvements in Railroad-Cars, of which the following is a specification:

The object of my invention is to close the spaces beneath the seats, to prevent the circulation of cold air by the feet and ankles of the passengers.

It is designed to be capable of operation from either end of the car, and all on one side, to operate together to close the spaces for cold weather and open them for warm.

Its nature consists in placing a movable or shifting partition beneath each seat, arranged to close and separate the spaces, and to open and allow the usual free circulation of air beneath the seats.

The accompanying drawings show a section of three seats of a railroad-car with my invention applied.

B is a slide-rod, extending along the side of the car, and supported in suitable brackets. A is the partition, pivoted at each end, so as, when level, to lie flat between the foot-rods C C, which are of the common style or form, the end of it next the side having a few teeth, as shown, to engage with those of the slide, or similar means to enable the slide to move it from the position shown in full line to that in broken lines *a*. The partitions under the seats of one side of a car, being all thus connected to the slide, may be operated from either end, and all closed or opened at once. In some cases a projecting piece may be necessary under the seat, to fill the space beside the width of a partition that lies between C C, and it may be also pivoted, if desired, and operated by the same slide, or be put permanently in its place. The spaces being closed, the common cold draft by the ankles and feet on the opening of the car-door, and other times, is effectually prevented; and for sweeping or washing, the partitions are easily turned out of the way.

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

1. The combination, with car-seats, of movable partitions for dividing the space under the seats into sections, as and for the purposes set forth.

2. The combination of the seats, movable partitions, and the slide, constructed and operated substantially as and for the purposes set forth.

In testimony whereof I do set my hand this 20th day of March, A. D. 1877.

CHILON HOUGHTON.

Witnesses:

NAPOLEON UNDERWOOD,

JOSEPH W. RONCO.