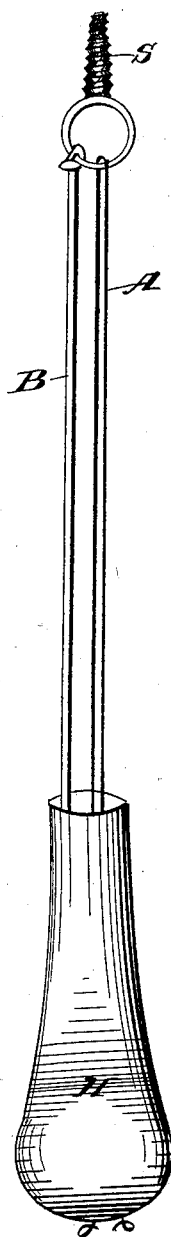
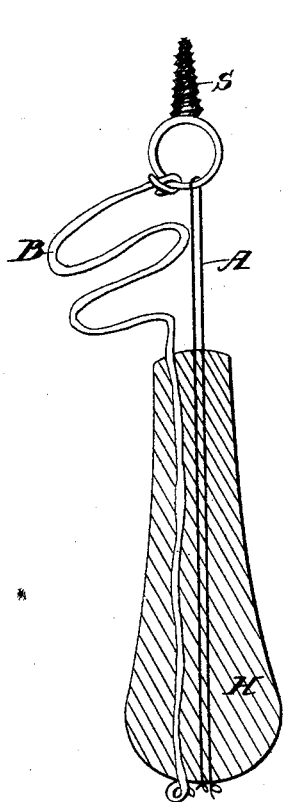


J. HANLEY.

Car Strap.

No. 45,407.

Patented Dec. 13, 1864.



Witnesses

Jos. H. Bowland

C. G. Buckenham

S. Y. D. Arrowsmith

Inventor

James Hanley

UNITED STATES PATENT OFFICE.

JAMES HANLEY, OF NEW YORK, N. Y.

IMPROVED PASSENGER-SUPPORT FOR CITY CARS.

Specification forming part of Letters Patent No. **45,407**, dated December 13, 1864.

To all whom it may concern:

Be it known that I, JAMES HANLEY, of No. 12 Sixth avenue, in the city and State of New York, have invented a new and Improved Passenger-Support for City and other Railroad-Cars; and I do declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference thereon.

In city railroad-cars, attached to the roof, hang straps of leather for standing passengers to take hold of for support, thereby steadying themselves, more especially when the cars are starting or stopping. To be out of the way, these straps are hung so high that their lower ends are above the heads of the passengers, and while holding onto the strap the hand is raised so high that the body of the passenger is thrown back into a very uneasy position, especially for females, exposing them to the attacks of pickpockets and other improprieties.

To do away with the above named inconveniences and give a more safe position and greater protection to such passengers, I have invented and made a new, useful, and improved hanging strap, which, when taken hold of, extends downward so as to allow the hand that holds it to rest close to the person on a level with the breast, and the body to have a perfectly erect and safe position. The strap, when released from the hand, springs upward to its former position near the roof and out of the way of the passengers' heads.

To enable others skilled in the art to make and use my invention, I have made the accompanying drawings, with the letters of reference marked thereon.

Figure 1 represents my strap in the contracted form, and Fig. 2 the strap when extended.

The same letters of reference apply to each figure.

My improved railroad-passenger support consists, principally, of two cords or straps arranged and acting in combination, one cord elastic, as seen at A, the other cord, B, non-elastic and strong. One end of each cord A and B is secured to a screw-eye, S, as a convenient fastening to the roof of the car, the other end to a handle, H, which is hollow so, that the cords can play in it.

In operation, when the handle H is drawn down, the elastic cord A stretches to the length of the strong cord B, the weight being supported by this cord alone, the elastic one, A, operating only as a spring.

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

The making straps or hanging supports of passenger cars to extend and contract, substantially in the manner and for the purpose herein described and set forth.

JAMES HANLEY.

Witnesses:

JOHN HALL,
ED. G. BUCKENHAM,
S. Y. D. ARROWSMITH.