

S. H. LITTLE.
Street-Car.

No. 164,311.

Patented June 8, 1875.

Fig. 1.

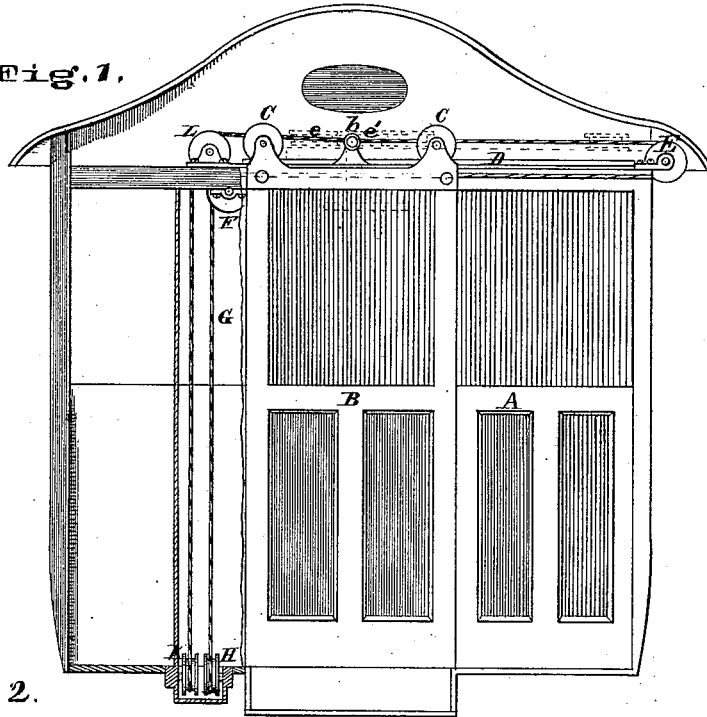
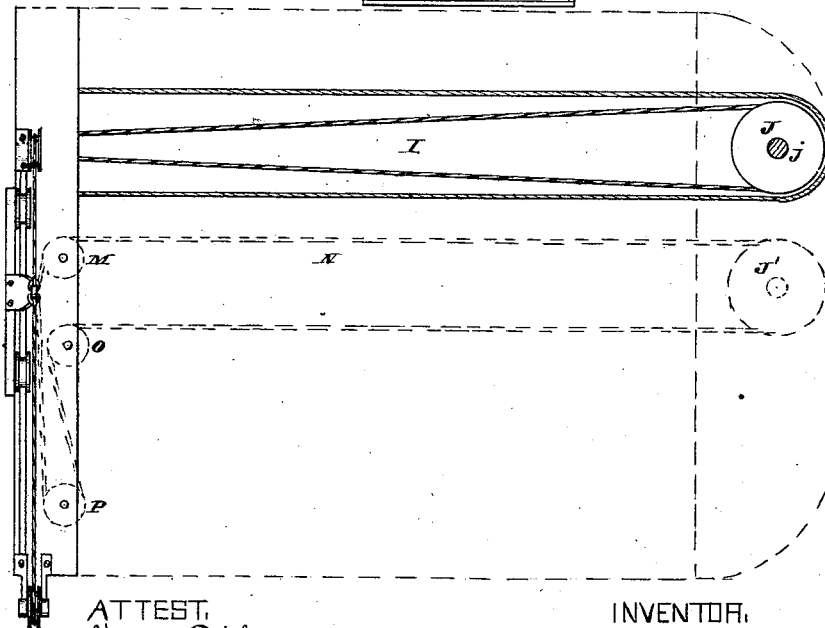


Fig. 2.



ATTEST,
Charles Pickles
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INVENTOR,
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By *Knight Bros.* Atty.

UNITED STATES PATENT OFFICE

SAMUEL H. LITTLE, OF ROSEMOND, ILLINOIS.

IMPROVEMENT IN STREET-CARS.

Specification forming part of Letters Patent No. **164,311**, dated June 8, 1875; application filed January 29, 1872.

To all whom it may concern:

Be it known that I, SAMUEL H. LITTLE, of Rosemond, in the county of Christian and State of Illinois, have invented a certain Improvement in Street-Railway Cars, of which the following is a specification:

This invention relates to the opening and closing the rear door of street-railway cars by a cord or strap whose ends are attached to the door, and which is under control of the driver.

Figure 1 is an elevation of my improvement, a portion of the rear wall of the car being broken away to show the parts within. Fig. 2 is a plan of the cord, pulleys, &c., showing their arrangement.

A is the rear wall of the car, and B the door, which is supported on rollers C, running on a rail or track, D, as shown. Attached to the post *b*, arising from the top of the door, is one end, *e'*, of a cord or strap, that passes around pulley E, and over the door to the pulley F, from which the cord passes down through the trunk G and under the pulley H, from which it passes through the trunk or boxing I to the drum J, beneath the front platform. The cord is there attached to, or coiled around, the drum J. This drum is turned by the driver by means of a hand-crank on its shaft *j*, shown in section in Fig. 2. From the drum J the cord passes back through the trunk I and beneath the pulley K, then up the vertical trunk

G and over the pulley L, and to its place of attachment to the door at *e*.

By turning the drum J the door is opened or closed, the cord being connected to the door at about the level of the rollers C, which run easily along their rail D.

A modification of the above is shown in dotted lines. In this case the drum J' is placed over the driver's head, beneath the hood or canopy, one end of the cord being attached to the post *b*, and this passes around one side of the pulley M, the cord then passing to the drum J' along the trunk or boxing N, and from the drum back through the trunk to the pulley O, and to, and around, the pulley P, and to the post *b*, to which it is attached.

I claim as my invention—

1. A sliding door for street-cars, operated in both directions by means of a continuous cord arranged within reach of the driver.

2. The combination of the door B, cord or strap *e e'*, and drum J, with necessary intervening pulleys, to enable the opening and closing of the door by the driver on the front platform, substantially as described.

In testimony of which invention I have hereunto set my hand.

SAML. H. LITTLE.

Witnesses:

SAML. KNIGHT,
CHARLES PICKLES.