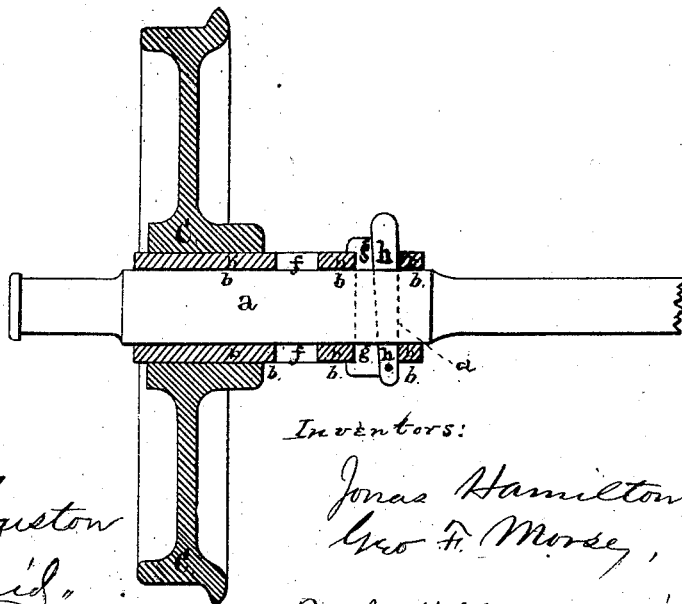
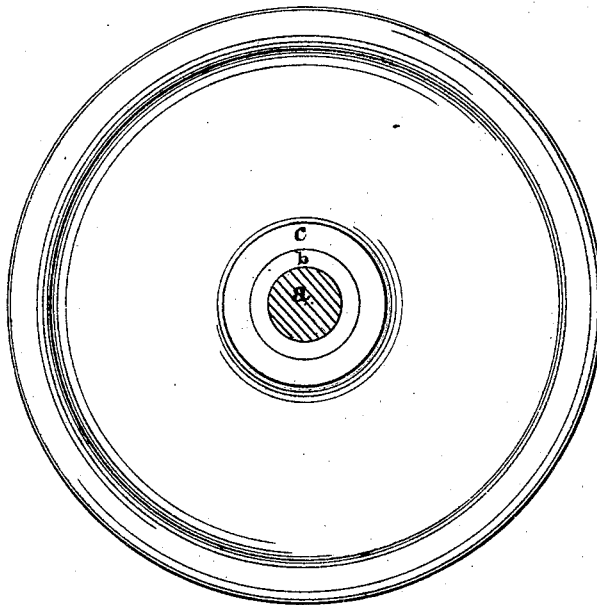


HAMILTON & MORSE.  
Adjustable Car Wheels.

No. 108,475.

Patented Oct. 18, 1870.



Witnesses:

Henry C. Houston  
George E. Bird

Inventors:

Jonas Hamilton,  
Geo. F. Morsey,

Per M<sup>rs</sup> H. Clifford Atty

# United States Patent Office.

JONAS HAMILTON AND GEORGE F. MORSE, OF PORTLAND, MAINE.

Letters Patent No. 108,475, dated October 18, 1870.

## IMPROVEMENT IN CHANGEABLE-GAUGE CAR-WHEELS.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that we, JONAS HAMILTON and GEORGE F. MORSE, of Portland, in the county of Cumberland and State of Maine, have invented a new and useful Improvement in Car-Wheels for Changeable-gauge Trucks; and we do hereby declare the following to be a full, clear, and exact description thereof, which will enable others to make and use our invention, reference being had to the accompanying drawing forming part of this specification, in which is seen a section of the wheel, bushing, and axle.

The purpose of our invention is to provide an improvement in car-wheels for changeable-gauge trucks; and

It consists of the bushing *b*, having two sets of apertures, in combination with the car-wheel, and the axle, having the hole to receive the gib and key, and the gib and key *g* and *h*.

Our bushings are secured to the axle, as shown in the drawing, by means of a key-way, made entirely through the axle, and by means of a gib and key, passing through both bushing and axle.

The bushing has two key-ways, to allow of the different positions of the wheel in accommodating itself to the broad or narrow gauge.

*a* shows the axle.

*b*, the bushing.

*c*, the car-wheel.

*d*, the key-way in the axle.

*f* indicates one of those in the bushing.

In the other are shown the gib *g* and key *h*.

What we claim as our invention, and desire to secure by Letters Patent, is—

The bushing *b*, having the two sets of apertures, in combination with the car-wheel, and the axle, having a hole to receive the gib and key, and the gib and key *g h*, as herein described.

JONAS HAMILTON.  
GEO. F. MORSE.

### Witnesses:

WILLIAM H. CLIFFORD,  
GEORGE E. BIRD.