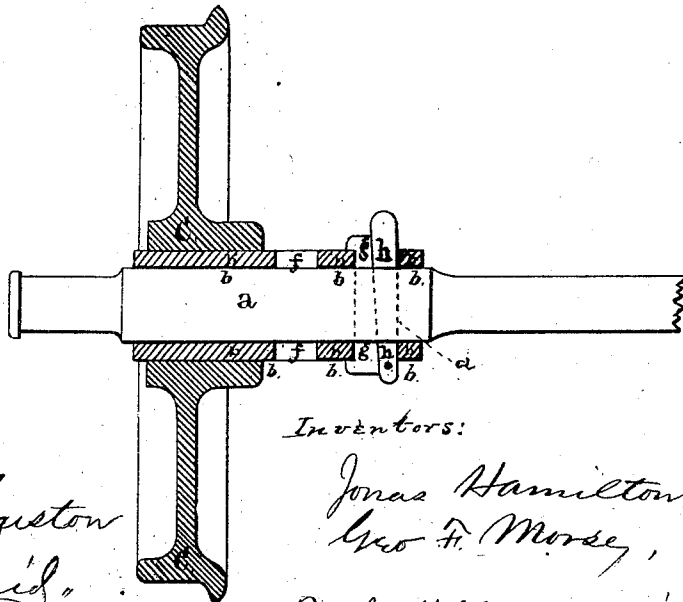
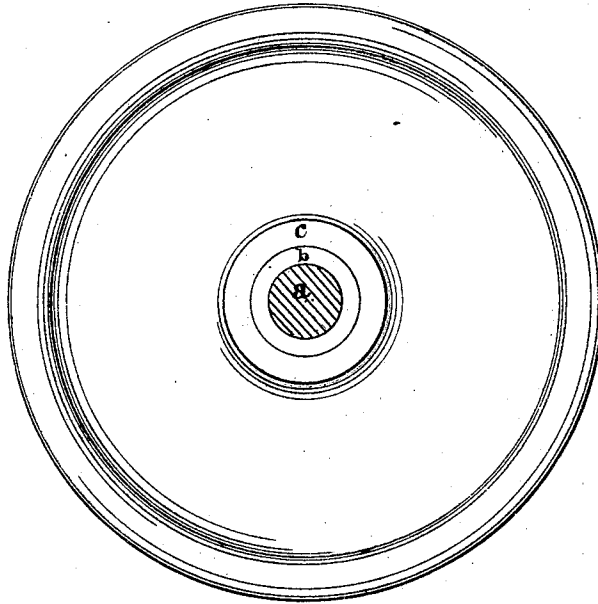


HAMILTON & MORSE.
Adjustable Car Wheels.

No. 108,475.

Patented Oct. 18, 1870.



Witnesses:

Henry C. Houston
George E. Bird

Inventors:

Jonas Hamilton,
Geo. H. Morse,
Per Wm. 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.