

L. T. PYOTT.
CAR-BRAKES.

No. 195,647.

Patented Sept. 25, 1877.

Fig. 1.

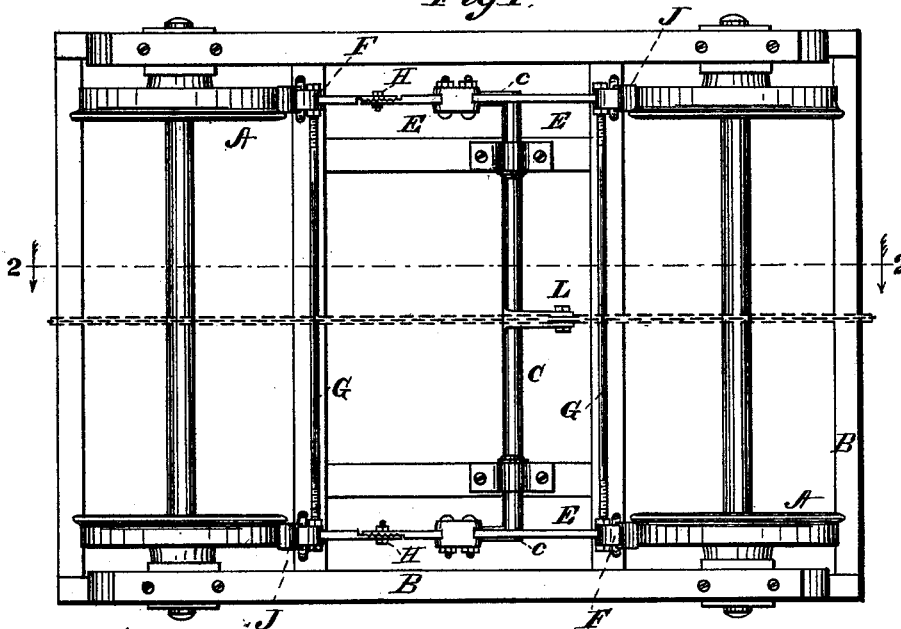


Fig. 2.

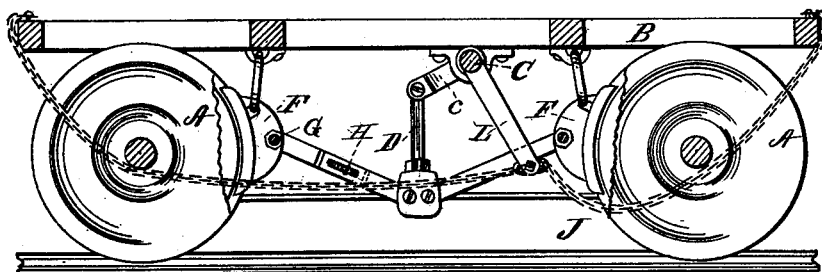


Fig. 3.

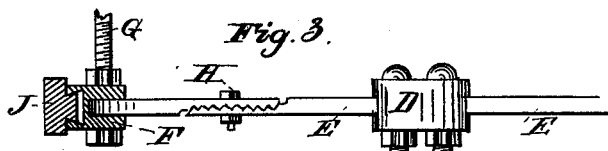


Fig. 4.



Witnesses

W. R. Edlin.

Chas J. Gooch

Inventor

Louis T. Pyott

By Knight Bros.

attorneys

UNITED STATES PATENT OFFICE.

LOUIS T. PYOTT, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO J. G. BRILL & CO., OF SAME PLACE.

IMPROVEMENT IN CAR-BRAKES.

Specification forming part of Letters Patent No. 195,647, dated September 25, 1877; application filed July 3, 1877.

To all whom it may concern:

Be it known that I, LOUIS T. PYOTT, of the city and county of Philadelphia, and State of Pennsylvania, have invented certain new and useful Improvements in Car-Brakes, of which the following is a specification:

In this invention the brakes are suspended between the wheels, and in line with them, on each side of the car, and are applied by toggles connecting each pair, and operated by a common rock-shaft through suitable connections. The toggles are adjustable as to length in order to accommodate shoes of different thickness. The holders for the shoes are in two parts, each having formed in it the half of a dovetail recess, so that when the parts are united they will form a holder to inclose a dovetail projection on the shoe and hold the said shoe in proper position. Each holder is clamped together and connected with its fellow on the opposite side of the car by means of a screw-threaded tie-rod and nuts. Each part of the holder is also constructed with the half of a socket, to receive the end of the toggle-bar, which is pivoted on the transverse tie-rod.

The object of this invention is to apply the brakes with the greatest effect, provide means for using shoes of different thickness, give an efficient holder for the shoes, and one from which they can be easily removed when desired, and insure the action of the brakes on the proper portion of the periphery of the wheel.

In the accompanying drawing, Figure 1 is a bottom view of my improved brake applied to a car-truck. Fig. 2 is a transverse section on the line 22, Fig. 1. Fig. 3 is a detached view, partly in section, of one of toggle-bars and the holder and shoe. Fig. 4 is a view of one part of the holder.

A may represent the wheels of a car-truck, B, which are attached in the usual manner. C is the rock-shaft for applying the brake, and is connected to the toggles by arm *c* and link D. E are the toggle-bars, pivoted to the brake-shoe holders F by transverse tie-rods G, said rods connecting opposite holders on each side of the car.

The toggle-bars are constructed in two parts, having serrated surfaces, and are united by a clamping-bolt, H, passing through a hole in one part and a slot in the other.

I represents the shoe-holders, divided longitudinally, and having part of a dovetail recess, also part of a recess having perpendicular sides formed in each portion, so that when the parts of the holder are united they will inclose a dovetail projection on the shoe J, and form a socket, K, for the reception of the toggle-bars.

The transverse tie-rod G is screw-threaded, and serves, in combination with clamping-nuts, to firmly join the two parts of the holder I, to secure the shoe and pivot the toggle-bar in its socket K.

The chains from the brake-wheel are attached to an arm, L, depending from the rock-shaft C.

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

1. A toggle-bar for car-brakes constructed in two parts, and adjustable as to length to accommodate shoes of different thickness, as set forth.

2. The combination of the slotted toggle-bar, constructed in two parts, having serrated surfaces, and the clamping-bolt H, all arranged as herein set forth, for the purpose specified.

3. A holder for brake-shoes constructed in two parts, each provided with part of a dovetail recess, as and for the purpose set forth.

4. The holder F, constructed in two parts, and having a part of the socket K to receive the end of the toggle-bar formed in each portion, as set forth.

5. The combination of the holder, constructed in two parts, and the transverse tie-rod G, all as herein set forth.

6. The combination of the rock-shaft C, link D, toggle-bars E, formed in two parts, and extensible as to length, and brake-shoes J, all as herein set forth.

LOUIS T. PYOTT.

Witnesses:

W. H. FORD,
S. C. VAN HOUTEN.