

No. 121,150.
Patented Nov. 21, 1871.

J.F. Brode. Car Brake.

Fig. 1.

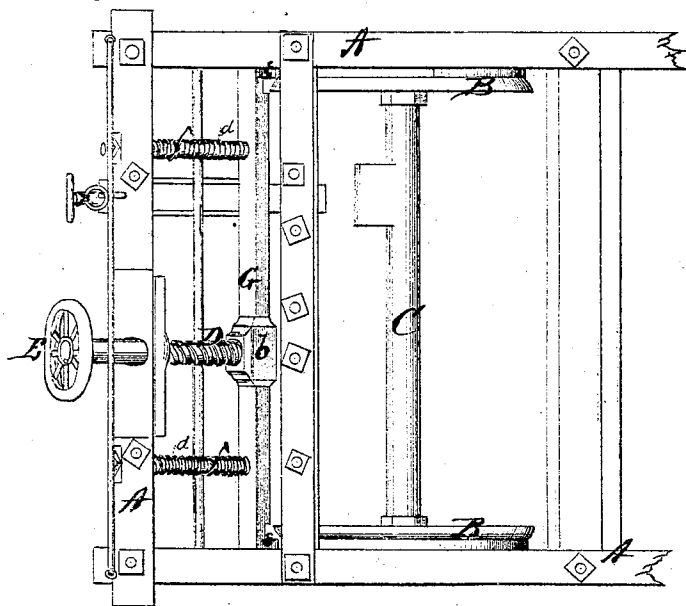
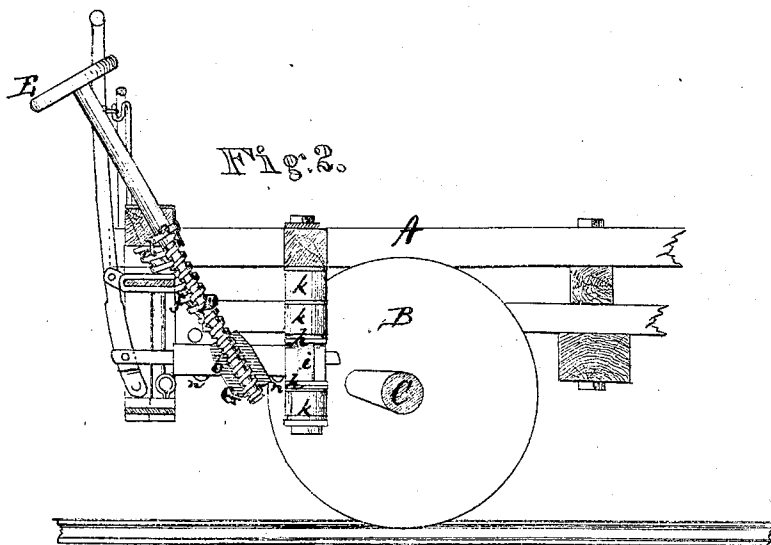


Fig. 2.



Witnesses:
Cha. Henryson,
F. B. Curtis

Inventor:
J. F. Brode,
Chipman & Hosmer & Co.
Atty

UNITED STATES PATENT OFFICE.

JOHN FREDERICK BRODE, OF MEMPHIS, TENNESSEE.

IMPROVEMENT IN CAR-BRAKES.

Specification forming part of Letters Patent No. 121,150, dated November 21, 1871.

To all whom it may concern:

Be it known that I, JOHN FREDERICK BRODE, of Memphis, in the county of Shelby and State of Tennessee, have invented a new and valuable Improvement in Car-Brakes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my device in plan view, and Fig. 2 is a longitudinal vertical section of the same.

The nature of my invention consists in the construction and arrangement of a car-brake, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

A represents the frame-work; B B, the wheels; and C, the shaft or axle at one end of a car. D is an inclined screw, provided at its upper end with a hand-wheel, E, said screw passing through a box formed in the frame A, and having a collar, *a*, placed within said box, so that the screw cannot be moved either up or down, although it

can readily be turned in either direction. The lower end of the screw D passes through a box, *b*, with female screw in the center of the brake-bar G; upon each end of which is the shoe *e*. Guide-rods *d d* also pass through the brake-bar G, said rods being secured to the frame A and surrounded above the bar with spiral springs *f f*, as shown in Fig. 1. The screw D is used to force the brake against the car-wheels.

The drawing accompanying this specification and making a part thereof represents a subsidiary brake, consisting mainly of a lever, bolt, and knuckle. This it is my purpose to illustrate and claim in another application to be hereafter filed, and therefore do not claim the same in this patent; but

What I claim as my invention is—

The combination of the inclined screw D, collar *a*, box *b*, brake-bar G, shoes *e*, guide-rods *d*, and spring *f*, constructed and arranged substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

J. FR. BRODE.

Witnesses:

JAMES B. COOK,
H. F. SCHULZE.

(122)