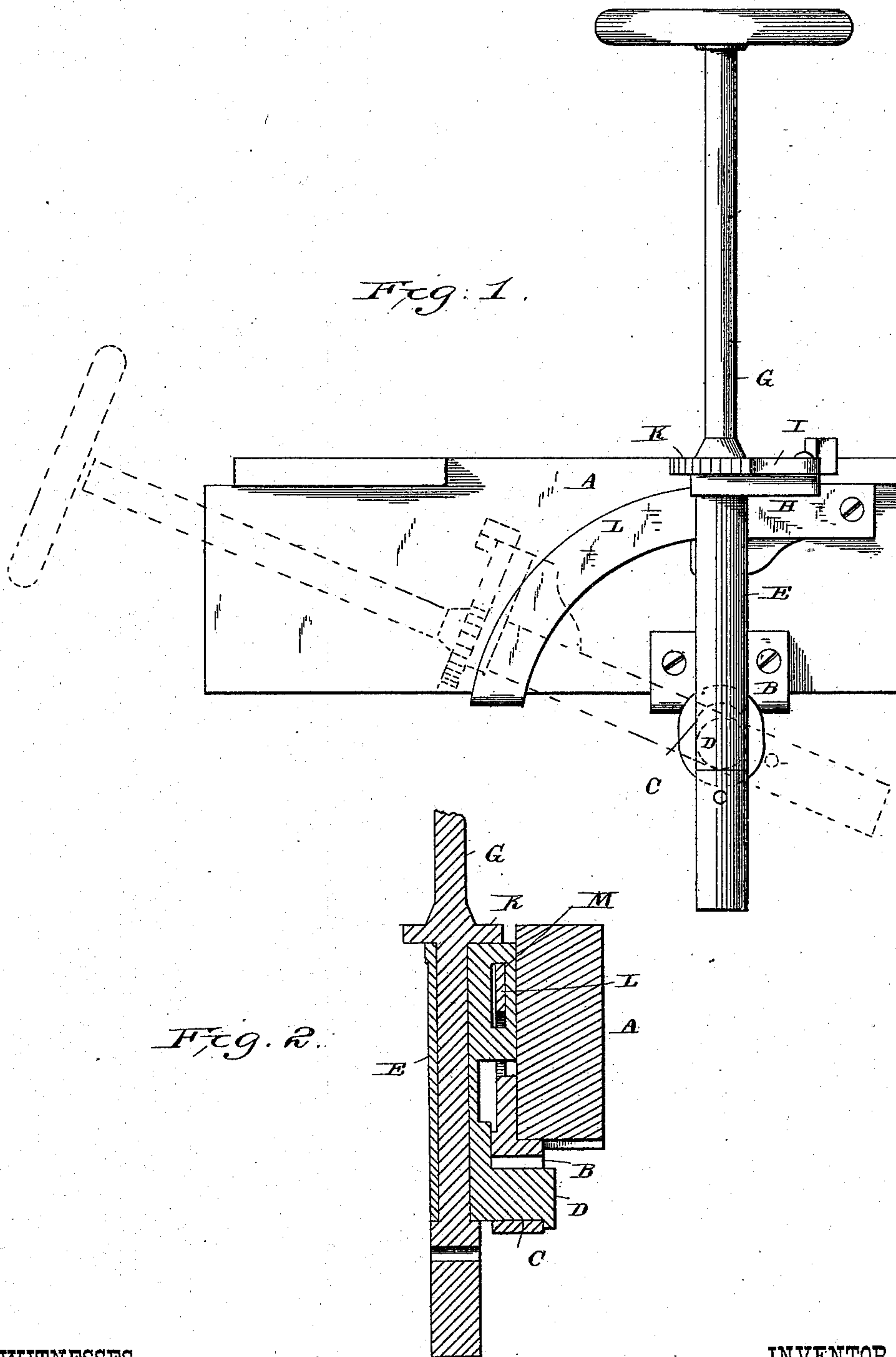


(Model.)

J. BETTIS.
CAR BRAKE.

No. 270,002.

Patented Jan. 2, 1883.



WITNESSES

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JOSIAH BETTIS, OF NEW ALBANY, INDIANA.

CAR-BRAKE.

SPECIFICATION forming part of Letters Patent No. 270,002, dated January 2, 1883.

Application filed August 19, 1882. (Model.)

To all whom it may concern:

Be it known that I, JOSIAH BETTIS, of New Albany, in the county of Floyd, and in the State of Indiana, have invented certain new and useful Improvements in Car-Brakes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

This invention relates to certain improvements in car-brakes; and it has for its object to provide a shifting brake-shaft which may be adjusted to operate in a vertical or horizontal position, so as to permit the brakes to be operated from the platform of the car or from either side of the same, as more fully hereinafter specified. These objects I accomplish by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a front elevation illustrating my invention, and Fig. 2 a vertical sectional view of my improved brake mechanism.

The letter A indicates a portion of the platform or end of a car, to the lower part of which is secured a bracket or hanger, B, in any suitable manner. The said bracket is provided with an elliptical or vertically-elongated bearing, C, for the shaft D, at the lower end of the sleeve E, the shaft being journaled in said bearing and held therein by means of a lip at its rear. In the sleeve E is journaled the brake-shaft G, the lower end projecting beyond the lower end of the sleeve, and adapted to receive the brake-chain and to have it wound thereon. The upper part of the brake-shaft extends above the sleeve, and at its top is provided with the usual brake-wheel. The sleeve at its top is provided with a bracket, H, to which is pivoted a pawl, I, adapted to engage a ratchet-wheel, K, on the brake-shaft to hold the brakes when on. The letter L indicates a

segmental bracket secured to the front of the car or platform. This bracket is recessed or notched immediately over the hanger B, and the notch or recess engages the bracket H when the brake-shaft is in a vertical position and holds it. The said bracket H is slotted at M, and is adapted to slide on the segmental bracket, so as to permit the brake-shaft to be thrown into a horizontal or nearly-horizontal position when desired. By reason of the slight vertical play of the shaft D in its elliptical bearing the bracket H is adapted to be lifted in or out of the recess in the segmental bracket.

The operation of my invention will be readily understood in connection with the above description, as it is evident that the brake-shaft may be used either in a vertical or horizontal position, or in any position between a vertical and horizontal position.

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

1. The combination, with a car, of the bracket or hanger having an elliptical bearing, the sleeve having a shaft journaled therein, the brake-shaft journaled in the sleeve, the bracket secured to said sleeve, and the notched segmental bracket, the whole arranged so that the brake-shaft may be thrown into a vertical or horizontal position, substantially as set forth.

2. The combination, with the swiveled sleeve, of the brake-shaft journaled therein and provided with a ratchet-wheel, and the engaging pawl swiveled to the bracket at the upper part of the sleeve, substantially as set forth.

In testimony whereof I affix my signature, in presence of two witnesses, this 24th day of July, 1882.

JOSIAH BETTIS.

Witnesses:

JOSEPH DOHERTY,
AMOS MINETT.