

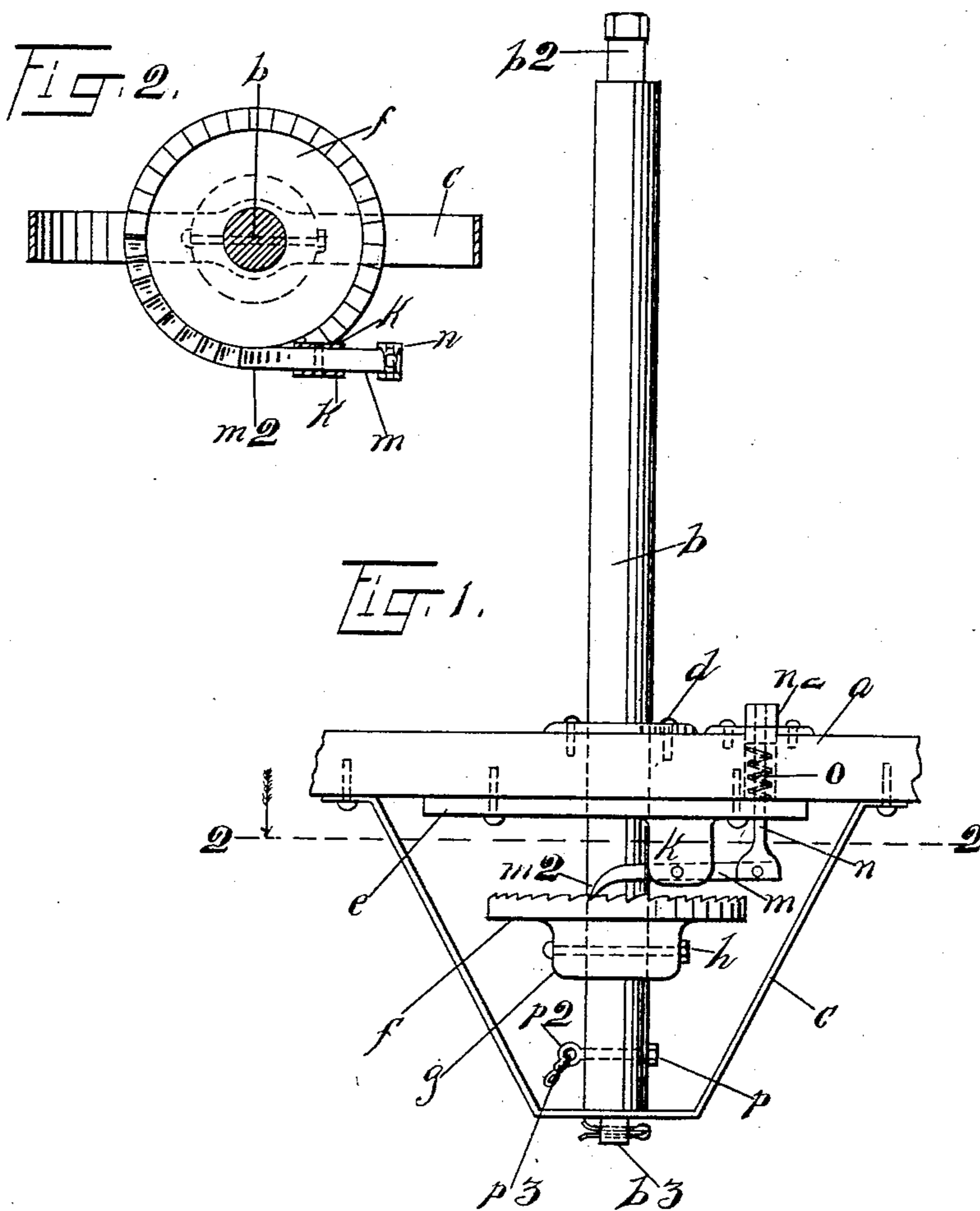
No. 703,106.

Patented June 24, 1902.

M. O. WICKS.  
BRAKE OPERATING DEVICE.

(Application filed Sept. 24, 1901.)

(No Model.)



WITNESSES

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# UNITED STATES PATENT OFFICE.

MILTON ORLANDO WICKS, OF BABYLON, NEW YORK.

## BRAKE-OPERATING DEVICE.

SPECIFICATION forming part of Letters Patent No. 703,106, dated June 24, 1902.

Application filed September 24, 1901. Serial No. 76,352. (No model.)

*To all whom it may concern:*

Be it known that I, MILTON ORLANDO WICKS, a citizen of the United States, residing at Babylon, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Brake-Operating Devices, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to devices for operating the brake or brakes of a tramway-car, and particularly to that part of such devices connected with and operated by a spindle or shaft passing vertically through the platform of a car; and the object of the invention is to provide improved devices of this class which are simple in construction and positive in their operation and which may be quickly and easily connected with a car for the purpose specified; and with this and other objects in view the invention consists in the construction, combination, and arrangement of parts hereinafter described and claimed.

In the drawings forming part of this specification, Figure 1 is a side elevation of my improved brake-operating device and showing a part of the platform of a car, and Fig. 2 a section on the line 2 2 of Fig. 1.

In the drawings forming part of this specification I have shown at *a* a part of the platform of a car, and at *b* a shaft or spindle passing vertically therethrough and which is provided at its upper end with a reduced portion *b*<sup>2</sup>, adapted to receive a crank or wheel by which the shaft or spindle is operated, and secured to the bottom of the platform *a* is a hanger *c*, on which the shaft or spindle rests and through the bottom of which is passed a reduced portion *b*<sup>3</sup> of said shaft or spindle.

Secured to the top of the platform *a* is a plate *d*, and secured to the bottom of said platform is another and larger plate *e*, and the shaft or spindle passes through both of these plates and is free to turn therein.

Mounted on and secured to the shaft or spindle at a predetermined distance below the plate *e* is a ratchet-wheel *f*, having a hub *g*, through which and the shaft or spindle is passed a bolt *h* in order to secure said wheel to said shaft or spindle, or said wheel may

be secured to said shaft or spindle in any desired manner.

Connected with the plate *e* are two hangers *k*, between which is pivoted a lever *m*, one end of which is curved downwardly and pointed and adapted to engage the ratchet-teeth of the wheel *f*, as shown at *m*<sup>2</sup>, and pivotally connected with the other end of the lever *m* is a rod *n*, which passes upwardly through the plate *e* and into and through the platform *a* and is provided at its upper end with a cylindrical knob or head *n*<sup>2</sup>, between which and the plate *e* is placed a spring *o*, and the lever *m*, or the end thereof with which the rod *n* is connected, is depressed by pressing on the knob or head *n*<sup>2</sup> with the foot.

Passing through the lower end portion of the shaft or spindle *b* is a bolt *p*, one end of which is provided with an eye *p*<sup>2</sup>, with which is connected a chain *p*<sup>3</sup>, which in practice is connected with the brake mechanism, which is not shown, and the operation will be readily understood from the foregoing description when taken in connection with the accompanying drawings and the following statement thereof.

A crank or wheel is connected with the shaft or spindle at *b*<sup>2</sup>, and all that is necessary to apply the brake, which is not shown, is to turn the shaft or spindle to the right, and the lever *m*, operating in connection with the ratchet-wheel *f*, will hold the brake when once applied until said lever is released from the ratchet-wheel by depressing the knob or head *n*<sup>2</sup> of the bolt *n*.

This device is simple in construction and operation and will not easily get out of order and may be applied to any form of tramway-car now in use and may also be applied to other cars or vehicles, as will be readily understood.

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

A brake-operating device, comprising a vertically-arranged spindle or shaft which passes through the platform of a car or other vehicle, a ratchet-wheel secured on said spindle or shaft below said platform, a lever pivotally supported over said ratchet-wheel and adapted to engage therewith and a spring-operated

rod pivotally connected with said lever and  
passing upwardly through the platform and  
adapted to be depressed, said spindle or shaft  
being also provided below said ratchet-wheel  
5 with means for connecting a flexible brake-  
operating device therewith.

In testimony that I claim the foregoing as

my invention I have signed my name, in pres-  
ence of the subscribing witnesses, this 18th  
day of September, 1901.

MILTON ORLANDO WICKS.

Witnesses:

HARRY JAMES WICKS,  
FLOYD WICKS UDALL.