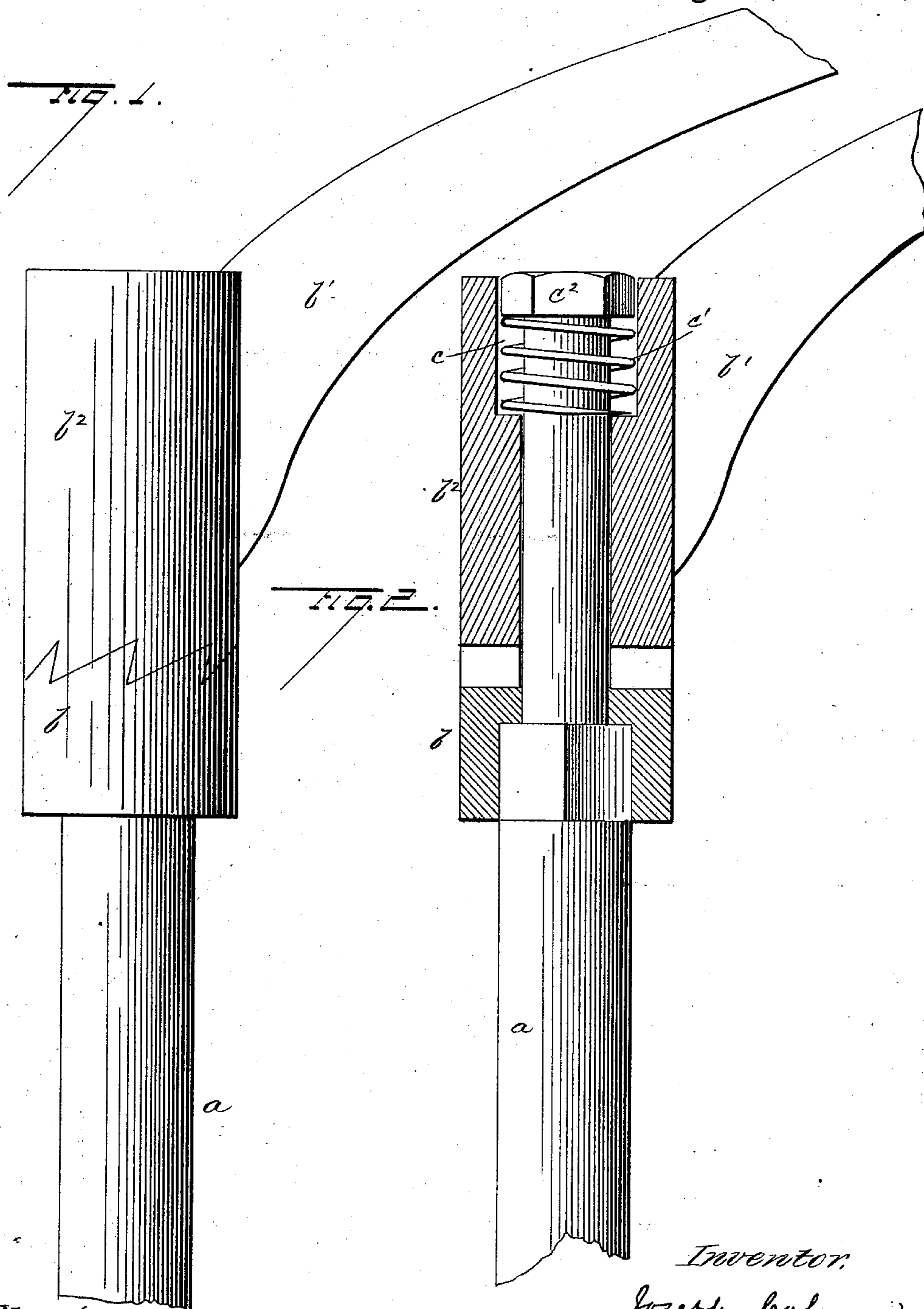


(No Model.)

J. CALMEYN.  
BRAKE HANDLE.

No. 369,227.

Patented Aug. 30, 1887.



Witnesses:  
H. C. M. *with*  
W. S. M. *Arthur*

Inventor,  
Joseph Calmeyer  
per  
Harrison  
Attorney.

# UNITED STATES PATENT OFFICE.

JOSEPH CALMEYN, OF CHICAGO, ILLINOIS.

## BRAKE-HANDLE.

SPECIFICATION forming part of Letters Patent No. 369,227, dated August 30, 1887.

Application filed May 8, 1886. Serial No. 201,539. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH CALMEYN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Ratchet-Connections for Brake-Handles, of which the following is a specification.

This invention relates to an improvement in ratchet-connections for brake-handles; and it consists in certain peculiarities of the construction and arrangement of the same, substantially as will be hereinafter more fully described, and pointed out in the claim.

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

Figure 1 is a side elevation, and Fig. 2 a central vertical section, of my device.

*a* represents the shaft or rod to which the brake is connected, such as ordinarily used in street-cars and similar vehicles, and it was not deemed necessary herein to illustrate more than the upper part of this rod or shaft, as its connection with the brake is not only well known, but is not material to this case. Upon this shaft, near its upper end, is secured, by a square shoulder or other means, a collar, *b*, having its upper face formed with ratchet-teeth, as shown. The crank-handle *b'*, of the desired size and shape, is provided with a sleeve, *b''*, which is placed upon the shaft above the collar, and is also formed with a ratchet-face to engage therewith. The upper end of this sleeve is chambered, as at *c*, and in this around the shaft is placed a spring, *c'*, secured

by a nut, *c''*, on the shaft. It will be evident that this forms a very strong and firm connection between the handle and brake-shaft, which is at the same time under full control and easily adjusted to place the handle in a position where it may be used to the best advantage. The spring and its securing-nut is recessed where it is entirely out of the way and not liable to become entangled with the garments of the operator or other things, and this may, if desired, be covered by a cap to exclude dust.

I do not desire to confine myself to the exact construction herein shown, as it may be changed somewhat without departing from the spirit of my invention. The spring is of use in insuring contact of the ratchets; but should it become weak or bent a little attention on the part of the operator will always enable it to be used till repairs can be made.

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

The combination, with the shaft *a*, formed with a square shoulder and provided with a nut, *c''*, on its upper end, and the collar *b*, formed to fit the squared shaft, and provided with a ratchet-face, of the crank-handle *b'*, formed with a sleeve, *b''*, recessed at *c*, and the spring *c'*, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH CALMEYN.

Witnesses:

W. C. McARTHUR,  
W. S. McARTHUR.