No. 772,987. PATENTED OCT. 25, 1904.

T. F. WETTON.

CONTACT FOR TROLLEYS.

APPLICATION FILED FEB. 4, 1904.

NO MODEL.

Fig. 1.

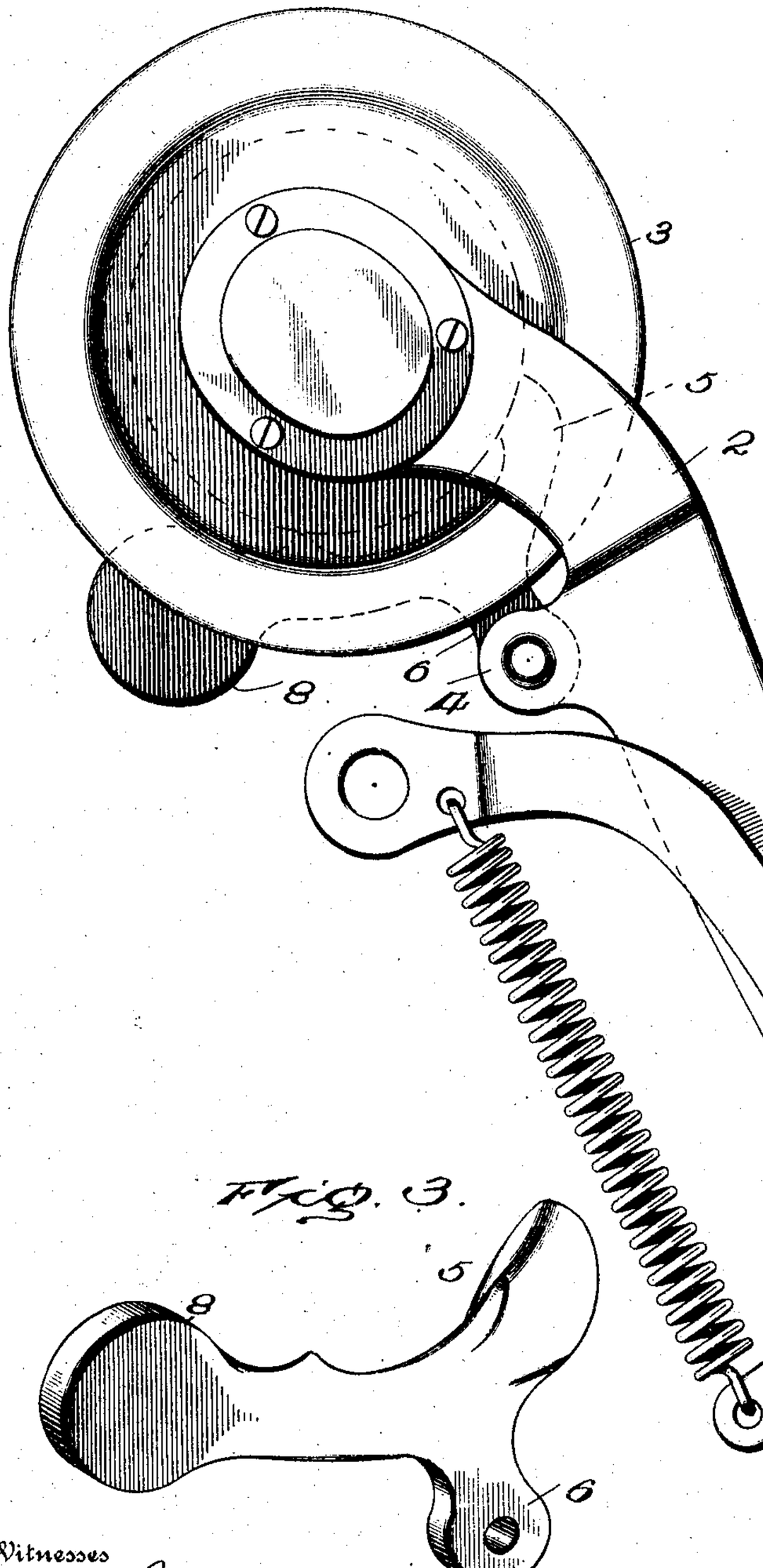

Fig. 2.

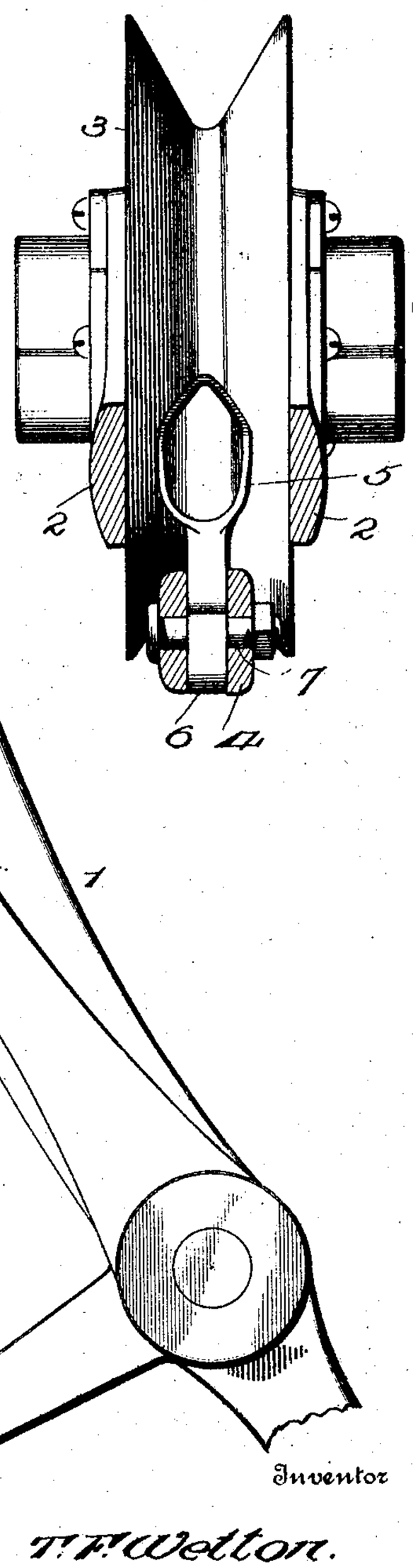

Fig. 3.

Witnesses

W. A. Woodson

Inventor

T. F. Wetton.

By R. H. B. Lacey Attorneys

PHOTO-LITHOGRAPHED BY SACKETT & WILHELMS LITHO. & PTG. CO. NEW YORK.

No. 772,987. Patented October 25, 1904.

UNITED STATES PATENT OFFICE.

THOMAS F. WETTON, OF NEWARK, OHIO.

CONTACT FOR TROLLEYS.

SPECIFICATION forming part of Letters Patent No. 772,987, dated October 25, 1904.

Application filed February 4, 1904. Serial No. 192,002. (No model.)

To all whom it may concern:

Be it known that I, THOMAS F. WETTON, a citizen of the United States, residing at Newark, in the county of Licking and State of Ohio, have invented certain new and useful Improvements in Contacts for Trolleys, of which the following is a specification.

This invention relates to improvements in trolleys, and aims to provide a novel form of electrical contact device for trolley-poles.

The invention comprises a special form of contact-shoe which is peculiarly mounted upon the trolley-pole adjacent the trolley-wheel and which is gravity-operated, so as to normally remain in its contact position.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation showing the contact-shoe in applied position. Fig. 2 is a rear elevation, partially in section, of the device applied. Fig. 3 is a detail view of the contact-shoe alone.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The invention is adapted for application to any of the ordinary types of trolley-poles which are now commonly in use.

As shown in the drawings, the pole 1 is provided at its upper end with the spaced arms 2, which comprise supporting members in which the trolley-wheel 3 is journaled. The supporting members 2 are provided with any suitable type of journals, and since the structure of the pole is not essential to the invention same will not be minutely described. The trolley-wheel 3 is of the ordinary groove type. The contact shown is pivotally mounted between bracket-lugs 4, such lugs being projected from the upper portion of the trolley-pole 1 at a point adjacent the spaced journaled arms 2. The shoe comprises a contact-plate 5, which is of concavo-convex form in cross-section and is adapted to fit snugly about the periphery of the trolley-wheel 3, being of arcuate form for this purpose. The contact-plate 5 has the pivoted lug 6 projected from the under side thereof, which pivoted lug is received between the spaced bracket-lugs 4 of the trolley-pole, and a pin 7, which passes through openings in the lugs 4 and 6, constitutes the pivot-mounting for the contact-shoe. The contact-shoe is adapted for a slight amount of movement, and in order to positively maintain the same in contact with the periphery of the wheel 3 an integral weight 8 is carried by the uppermost end of the plate 5, which weight normally holds the plate 5 in constant contact with the wheel 3.

The shoe when constructed as above set forth is received almost entirely within the grooved portion of the trolley-wheel 3 and is not visible from the sides.

The exact disposal of the shoe and the peculiar construction thereof form a sufficient contact device the proper working of which is not effected by weather conditions and which is not liable to injury due to the lodgment of foreign matter, which is a defective feature of many forms of contact devices at present in use. The pivotal mounting of the shoe permits the weight 8 to maintain the periphery contact-plate 5 in proper position under all conditions of service.

Having thus described the invention, what is claimed as new is—

1. In a contact device for trolleys, the combination with a trolley-pole, a trolley-wheel journaled upon said pole, a contact-shoe pivoted to the trolley-pole and engaging the trolley-wheel aforesaid, and an integral weight for maintaining the contact-shoe in engagement with the trolley-wheel.

2. In a contact device for trolleys, the combination of a trolley-pole, a trolley-wheel mounted upon said pole, bracket-lugs projected from the trolley-pole adjacent the trolley-wheel, a contact-shoe comprising a peripheral contact-plate of concavo-convex form in cross-section engaging the grooved portion of the

trolley-wheel, the upper portion of said plate being in contact to the wheel, the lower portion of said plate being formed with an integral weight projected therefrom, a pivot-lug projected from the under side of the contact-plate and pivoted between the bracket-lugs of the trolley-pole.

3. In a contact device for trolleys, the combination with a trolley-pole having its upper end provided with spaced arms, a trolley-wheel journaled between said arms, bracket-lugs projected from the trolley-pole adjacent the spaced arms, a contact-shoe comprising a peripheral contact-plate housed within and engaging the grooved portion of the trolley-wheel, an integral weight formed at the lower end of said contact-plate, a pivot-lug projected from the under side of said plate and journaled between bracket-lugs of the pole, the contact-shoe being arranged between spaced arms of the pole.

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

THOMAS F. WETTON. [L. S.]

Witnesses:
JOHN B. MOORE,
JOSEPH RENZ.