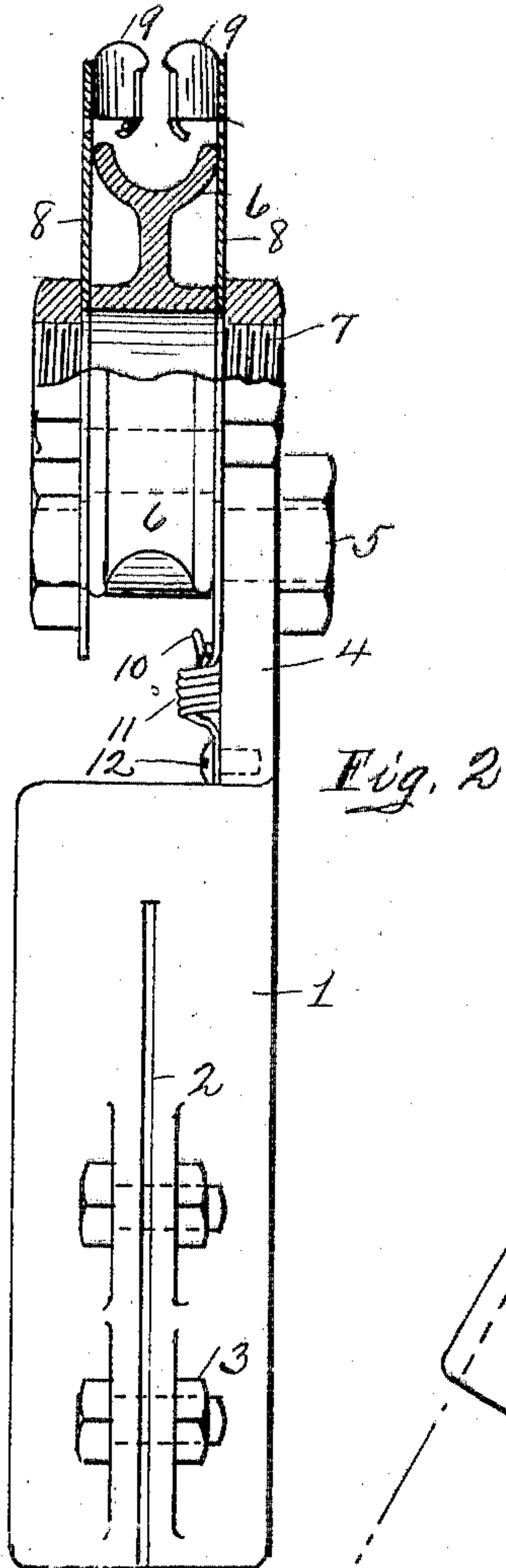


No. 775,993.

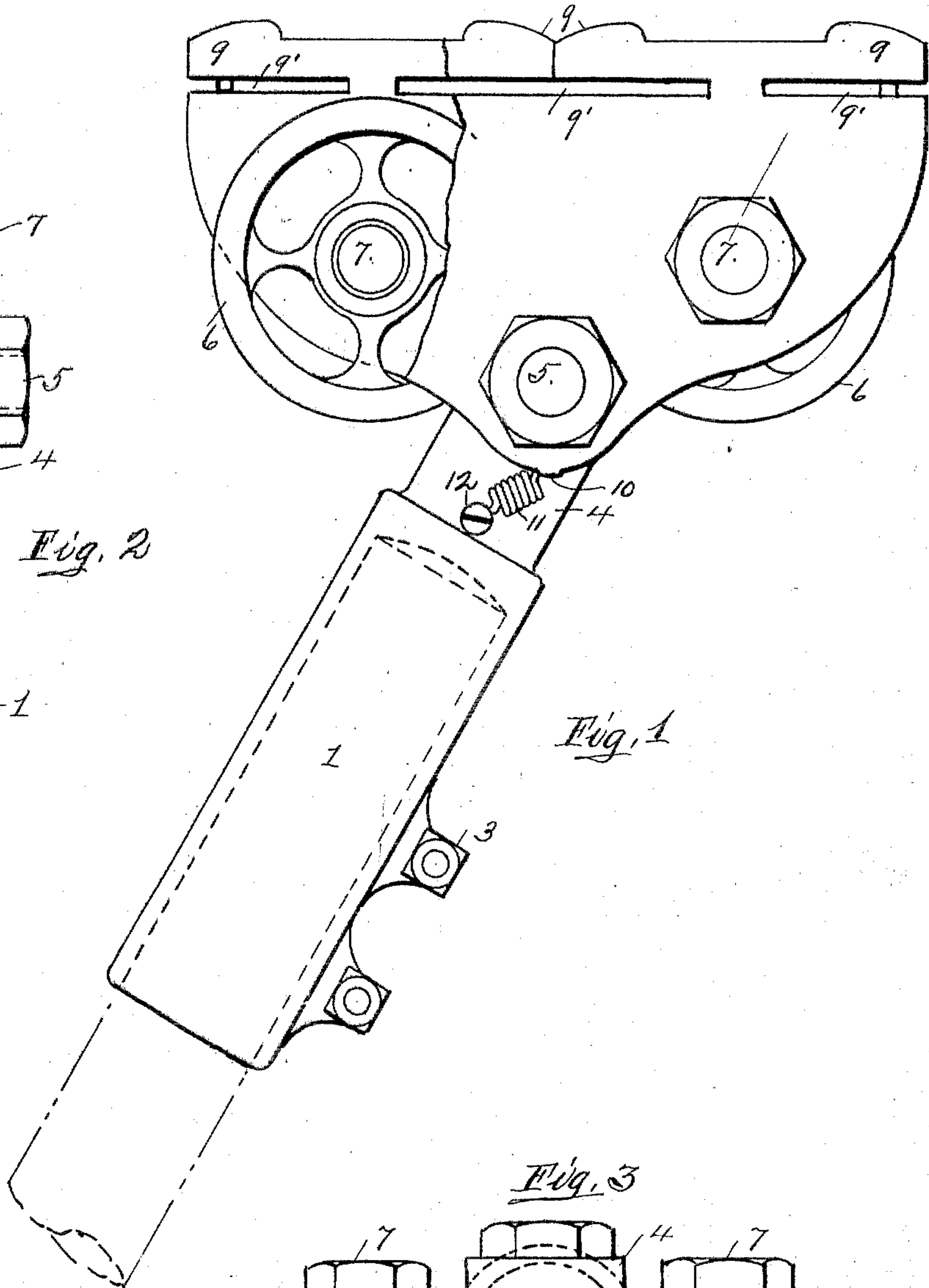
PATENTED NOV. 29, 1904.

J. B. SHORT.  
GUARD FOR TROLLEYS.  
APPLICATION FILED MAR. 1, 1904.

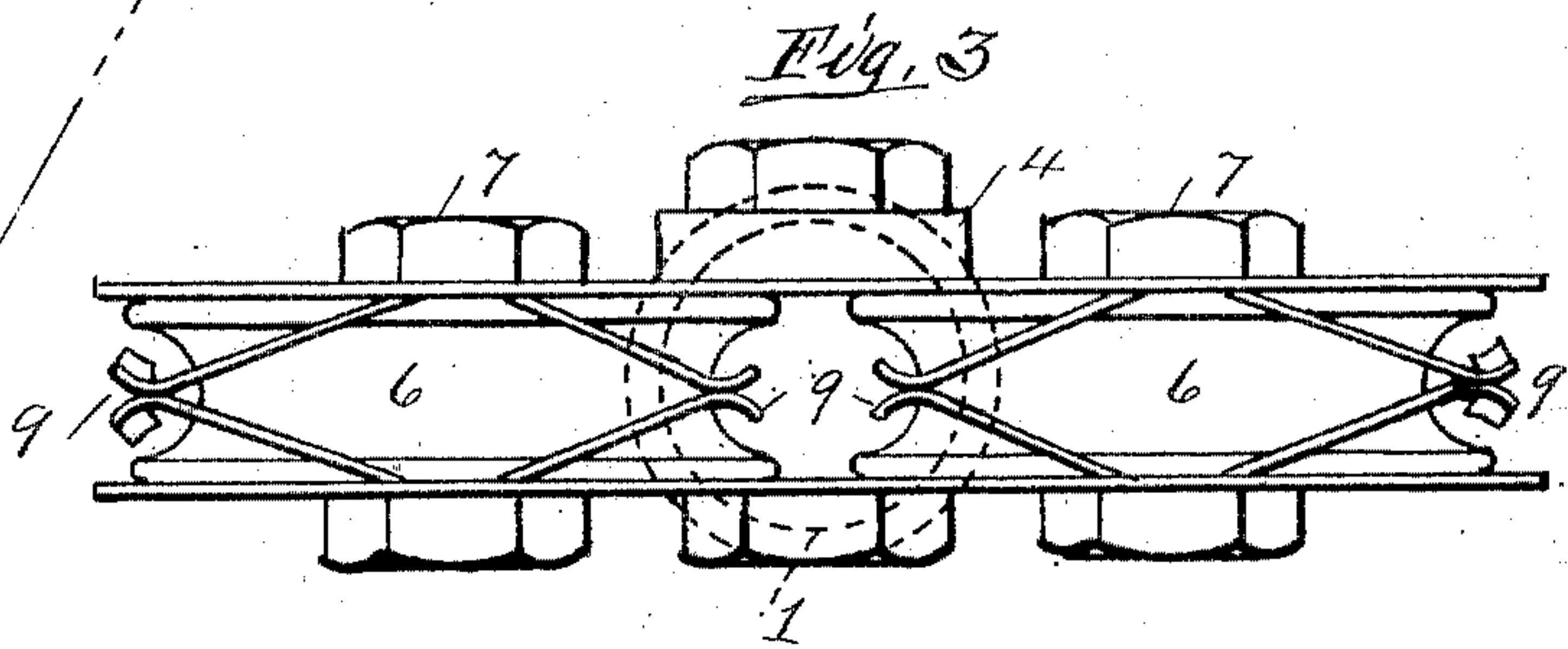
NO MODEL.



*Fig. 2*



*Fig. 1*



*Fig. 3*

Witnesses:  
M. Hunter  
S. B. Lewis

Inventor:  
Joseph B. Short  
By O. W. Lewis  
att'y.

# UNITED STATES PATENT OFFICE.

JOSEPH BANTON SHORT, OF WILKINSBURG, PENNSYLVANIA.

## GUARD FOR TROLLEYS.

SPECIFICATION forming part of Letters Patent No. 775,993, dated November 29, 1904.

Application filed March 1, 1904. Serial No. 196,021. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH BANTON SHORT, a citizen of the United States, residing at Wilkinsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Guards for Trolleys, of which improvement the following is a specification.

This invention relates to an improved guard for trolleys; and it consists in the certain details of construction and combination of parts, as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a side elevation of my improved trolley-guard for railway purposes, the same being constructed and arranged in accordance with my invention. Fig. 2 is a front elevation of the same, a part of said view being shown in section. Fig. 3 is a plan view.

To construct a trolley-guard in accordance with my invention, and thereby provide a device which will prevent the trolley from leaving the line-wire, I form from suitable metal a pole-socket 1, provided with a slot 2 and bolts 3, by means of which the same may be clamped to said pole. Formed on the top of this socket 1 and integral therewith is a flange 4, to which is loosely connected, by means of a bolt 5, two sheet-metal supports 8, the one arranged parallel to the other and fitted intermediate of said plates with two trolleys 6. These trolleys 6 are mounted upon stout bolts 7, fitted with nuts and located upon the same plane, the one a short distance from the other. The tops of the plates 8 are slotted at 9 and the ends 9 bent inward, as will be seen by reference to Fig. 3 of the drawings. These por-

tions 9 are located immediately above the trolleys 6 and over the top of the line-wire. Formed at base of one of the plates is a hook 10, which, together with a short spring 11, attached to a screw 12, will keep the plane of the trolleys at right angles with the trolley-pole.

In operation the line-wire is sprung between the spring portions 9, which closes over said wire, thereby confining the same until forcibly removed by the operator.

Various slight modifications and changes may be made in the details of construction without departing from the spirit of the invention. Therefore I do not wish to confine myself to that shown and described.

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

The herein-described trolley and guard, consisting of the socket 1, a means for attaching the same to the trolley-pole, the integral flange 4 having journaled thereto two plates 8, arranged side by side, the intermediate trolleys 6, arranged in bearings by means of the bolts 7, the inwardly-bent spring portions 9, arranged above the trolleys and the spring 11, connected to one of the plates 8, to hold the trolley in position, substantially as and for the purpose described.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses.

JOSEPH BANTON SHORT.

In presence of—

FRED. O. HENZI,

H. J. LEVIS.