

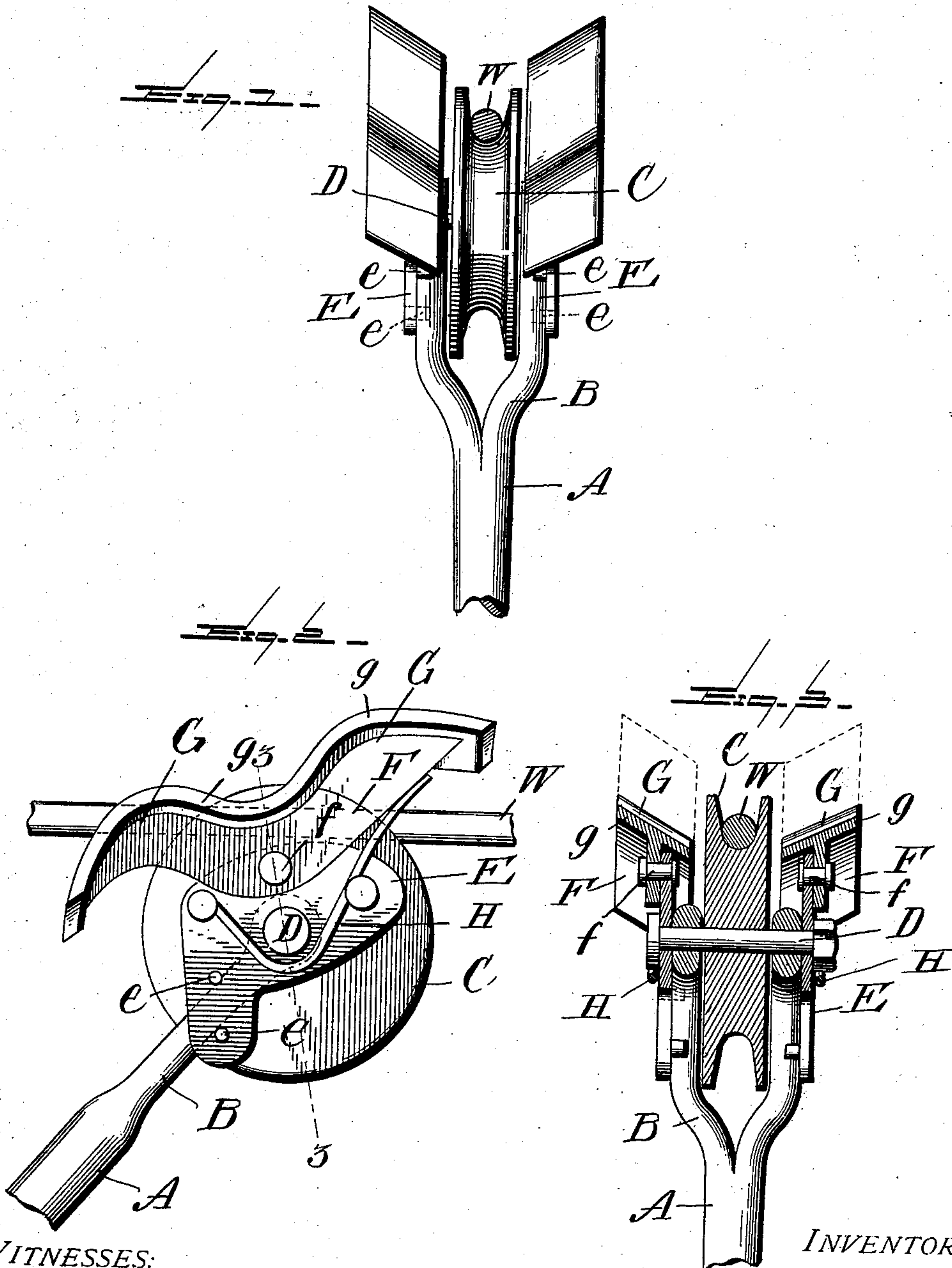
No. 685,118.

A. J. EBERWINE.
TROLLEY.

Patented Oct. 22, 1901.

(Application filed Aug. 8, 1901.)

(No Model.)



WITNESSES:

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ALBERT J. EBERWINE, OF SLATINGTON, PENNSYLVANIA.

TROLLEY.

SPECIFICATION forming part of Letters Patent No. 685,118, dated October 22, 1901.

Application filed August 8, 1901. Serial No. 71,417. (No model.)

To all whom it may concern:

Be it known that I, ALBERT J. EBERWINE, of Slatington, in the county of Lehigh and State of Pennsylvania, have invented certain new and useful Improvements in Trolleys; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

10 This invention is an improvement in overhead trolleys for electric railways; and its object is to provide an improved fender or guard and resetting device for the trolley, so that displacement of the trolley-wheel from the wire will be generally prevented, but if it should jump the wire it can be more quickly and readily replaced than could the ordinary wheel. The device also serves as a guard for the wheel and fork.

20 The invention therefore consists in the novel construction of the device and combination of parts therein hereinafter described and claimed, and illustrated in the accompanying drawings, in which—

25 Figure 1 is a front view of the device applied to a trolley wheel and fork; Fig. 2, a side view thereof; and Fig. 3, a section on line 3 3, Fig. 2.

30 A designates a trolley-pole, having fork B on one end, in which is the ordinary trolley-wheel C, mounted on a bolt D, transfixing the members of fork B, as usual. On bolt D, at opposite sides of the fork, are mounted plates E, which are provided with inwardly-projecting lugs or pins *e e* at opposite sides of the fork members, by which rotation of the plates on the bolt D is prevented. To the upper sides of plates E are pivoted the rocking guards or fenders F, as shown at *f*. These guards are provided with two rounded protuberances G G on their upper edges, and from such edges spring upwardly and outwardly inclined flanges *g*, as shown.

45 The guards are held normally in an inclined position, as shown in Fig. 2, by means of springs H, attached to the plates E and bearing against the lower edge of the adjacent guard, as shown in Fig. 2. The upper ends and edges of the guards project above the

trolley-wheel C and the trolley-wire W, on each side thereof, so that if the trolley should jump the wire the guards will prevent the trolley striking a trolley-pole arm or guy-wire, and when either guard G catches beneath the wire W it will cause the trolley to move back into position beneath the same, as the inclined flanges on the guards will direct the trolley-wheel into position under the wire W, as is obvious from the drawings.

Each plate E, with its attached guard G, is detachable from the bolt D, and these guards and fenders can be readily applied to ordinary trolley heads or forks without requiring any special tools or alterations in the latter.

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

1. The combination of the trolley-head, the wheel, and the bolt securing the wheel to the head, with the plates suspended on the bolt at opposite sides of the wheel, the curved guards pivoted on said plates, and the springs for holding said guards in position.

2. The combination of the trolley-head, the trolley-wheel, the bolt on which the wheel is journaled; and the removable plates hung on said bolt but engaging the head so as not to be rotatable; with the guards pivoted on said plates having outwardly and upwardly inclined flanges for the purpose and substantially as described.

3. The combination of the trolley-fork, the bolt transfixing the same, and the trolley-wheel journaled on the bolt; with the detachable plates hung on the bolt and engaging the forks so as to be non-rotatable, the curved and flanged guards pivoted on said plates, and the springs attached to the plates and engaging the guards for the purpose and substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ALBERT J. EBERWINE.

In presence of—

G. T. OPLINGER,
CHARLES B. MACK.