

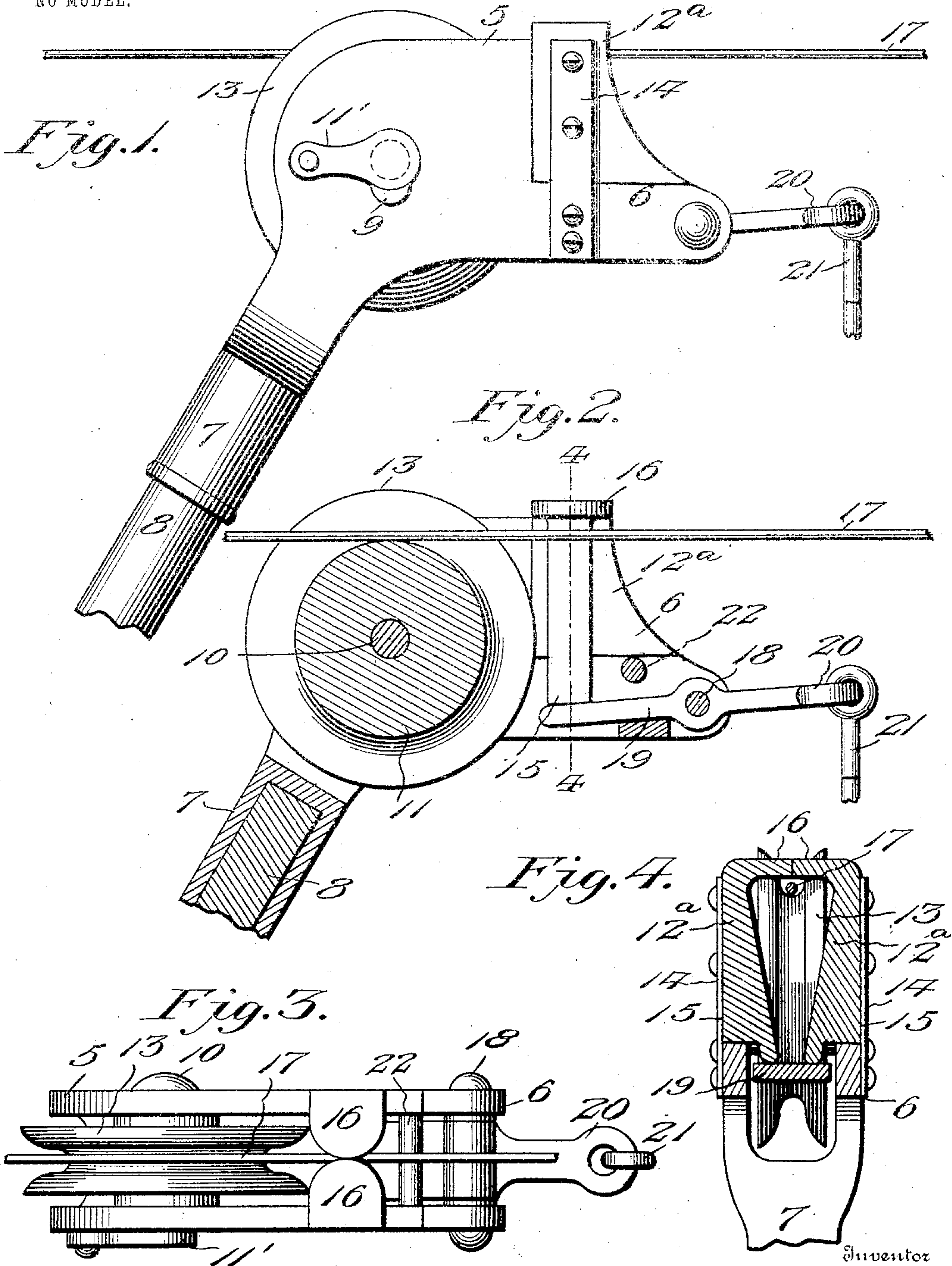
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M. H. DORSEY.
TROLLEY GUARD.

APPLICATION FILED MAY 24, 1904.

NO MODEL.



Witnesses

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UNITED STATES PATENT OFFICE.

MACK HENRY DORSEY, OF WOODLAWN, ALABAMA.

TROLLEY-GUARD.

SPECIFICATION forming part of Letters Patent No. 778,017, dated December 20, 1904.

Application filed May 24, 1904. Serial No. 209,485.

To all whom it may concern:

Be it known that I, MACK HENRY DORSEY, a citizen of the United States, residing at Woodlawn, in the county of Jefferson and State of Alabama, have invented new and useful Improvements in Trolley-Guards, of which the following is a specification.

This invention relates to a trolley harp or guard for electric railways, and has for its object to provide a guard that will prevent the accidental displacement of the trolley-wire from the trolley-wheel when the latter is placed in position to coact therewith.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 represents a view in side elevation of the trolley-guard in position with regard to the trolley-wire. Fig. 2 represents a like sectional view. Fig. 3 indicates a top plan view. Fig. 4 represents a vertical section taken on line 4 4 of Fig. 2.

Like numerals indicate like parts in the several figures.

Referring to the drawings by numerals, 5 designates a trolley-wheel-supporting frame that comprises a pair of rearwardly-extending arms 6, that are arranged in spaced parallelism and which are connected together integrally at their forward end to form a shank or ferrule 7, that is adapted to engage with and be secured to a trolley-pole 8. The arms 6 are provided with journal-bearings 9 for the reception of the wheel spindles or trunnions 10, that project axially from the trolley-wheel 11.

11' designates a pivoted dust-guard.

The wheel 11 is provided with guiding-flanges 13, as usual.

12^a designates a pair of hinged members which are respectively fulcrumed on the rear portion of the arms 6, and which extend in a vertical plane flush with the walls formed by the side arms 6, and which are yieldingly mounted thereon for lateral tilting movement by attachment with flexible straps 14. The members 12^a are each provided with pendent arms 15 and at their top portions with corresponding inwardly-turned normally contract-

ing fingers 16, that normally form a closed pair in a plane that extends above the wire 17, but on substantially a tangent with the flanges of the trolley-wheel.

Fulcrumed on the cross-bolt 18, which connects the side arms at the rear portion of said frame, is the actuating-lever 19, the outer end of which is provided with an eye 20, to which is secured the end of the trolley-cord 21. The other end of said lever is adapted to swing into engagement with the arms 15 of the hinged sections 12^a and which in its upward pressure thereon serves to spread the sections apart to cause a like separation or gap between the finger members, whereby the trolley-wheel may be removed from the wire 17.

22 designates a limiting or stop pin which prescribes to upward limit of movement for the actuating-lever.

Having described the invention, what I desire to claim as new and useful is—

1. The combination with a trolley-harp comprising a frame having inclosing side bars and carrying a rotatable trolley-wheel, hinged members supported respectively by said side bars, inwardly-turned contacting fingers attached to said hinged members, downwardly-extending arms projecting respectively from said hinged members, an actuating-lever pivotally mounted in an approximately horizontal position within said frame, said lever being adapted to swing upward into forceful engagement with lower ends of said arms to force them toward each other and to spread apart said fingers, substantially as described.

2. In a trolley-head, a frame or casing carrying a rotatable trolley-wheel, hinged members supported thereon, inwardly-turned retaining-fingers carried by said members, an actuating-lever pivotally mounted in said frame in an approximately horizontal position and arranged in operative relation to said hinged members, whereby when one end of the lever is swung upward the hinged members are moved toward each other and the fingers separated, substantially as described.

3. In a trolley-head, a frame or casing carrying the trolley-wheel, hinged members ful-

crumed thereon, retaining-fingers carried respectively by said hinged members, arms extending downwardly from the respective hinged members, an actuating-lever pivotally
5 mounted in said frame, that is adapted to be operatively engaged with said downwardly-extending arms, whereby the hinged members and the retaining-fingers carried thereby may

be forced outwardly in separation, as and for the purpose set forth. 10

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

MACK HENRY DORSEY.

Witnesses:

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