

No. 725,622.

PATENTED APR. 14, 1903.

C. W. HORNUNG.
GUARD FOR THIRD RAILS.
APPLICATION FILED DEC. 22, 1902.

NO MODEL.

Fig. 1.

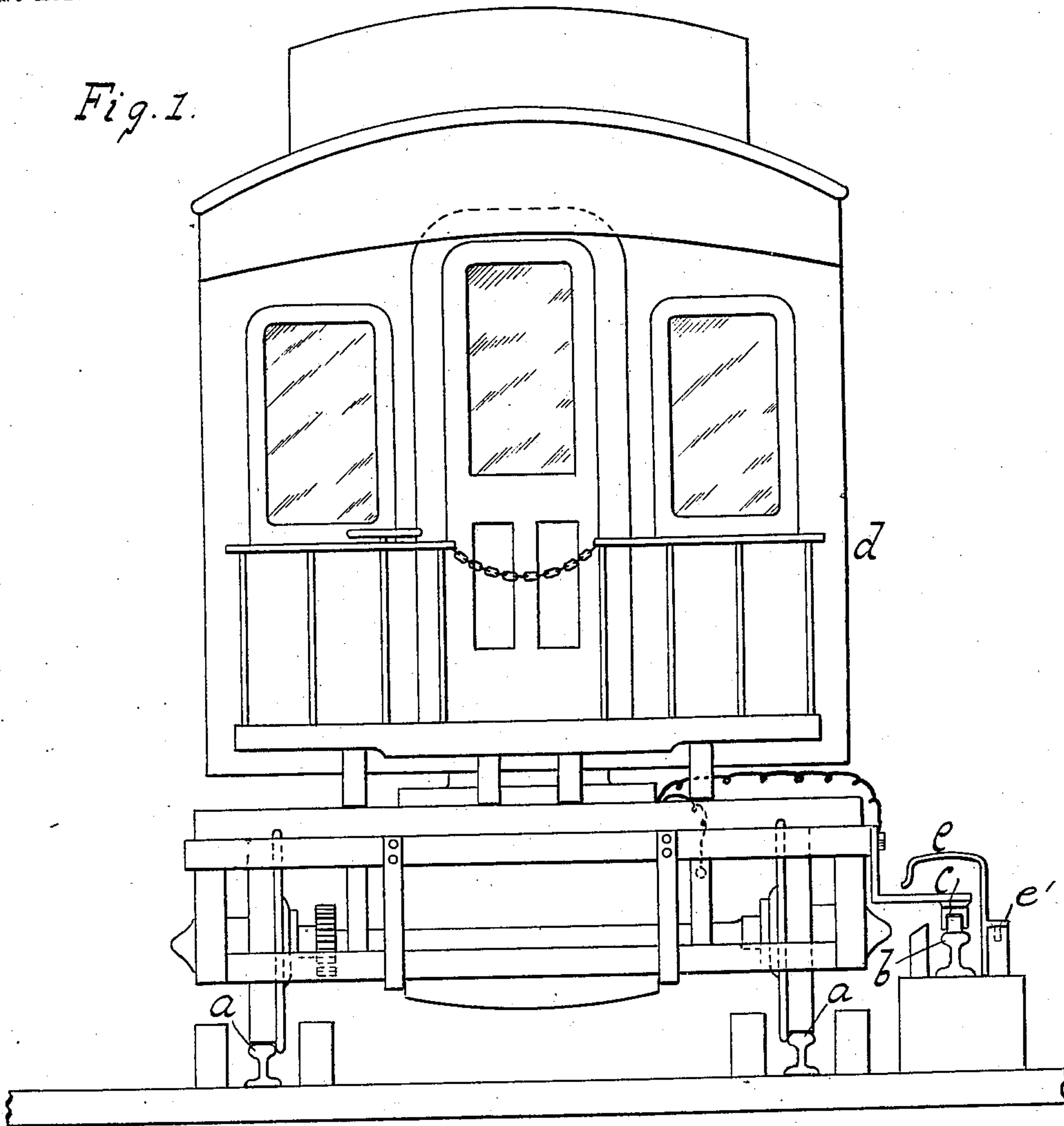
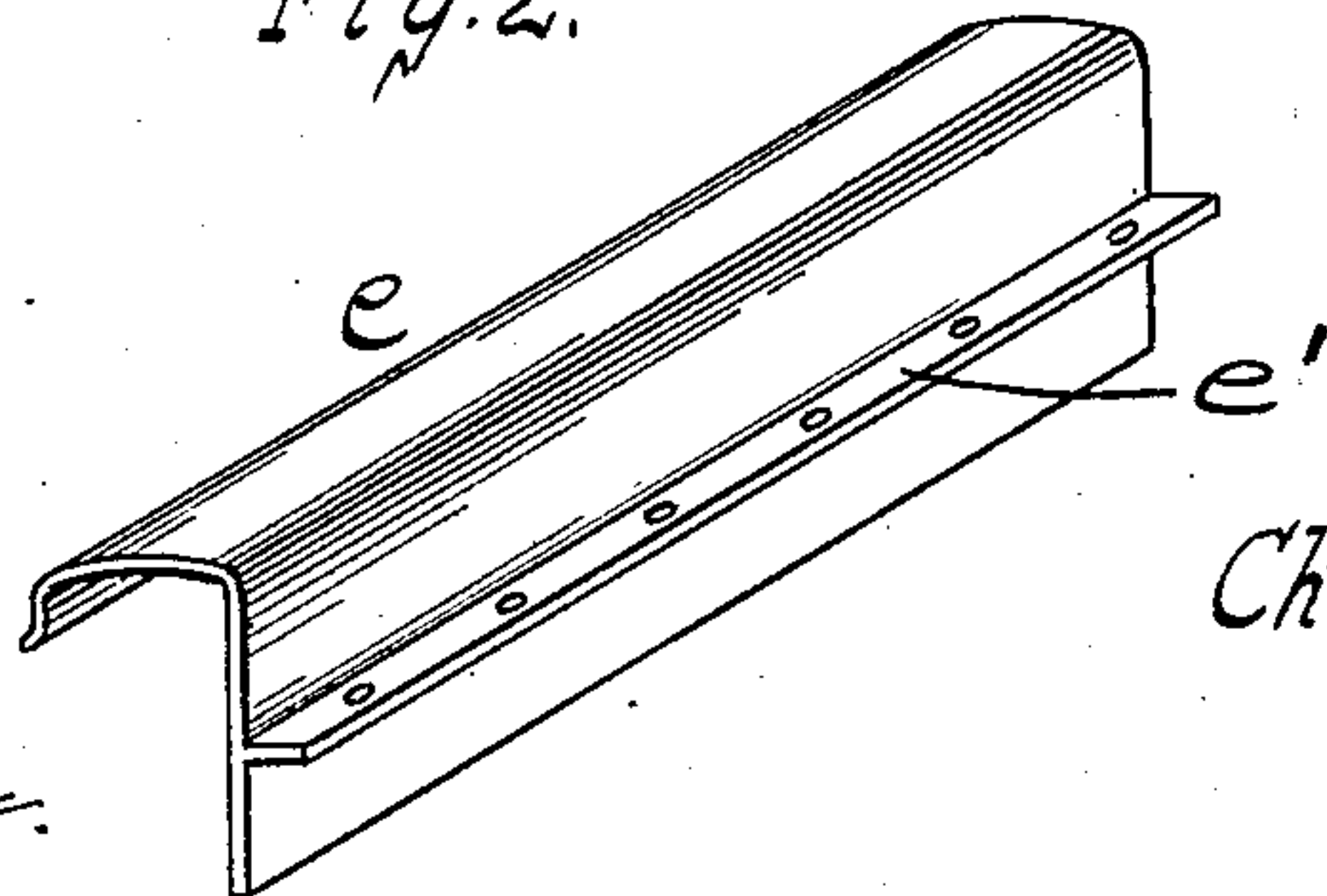


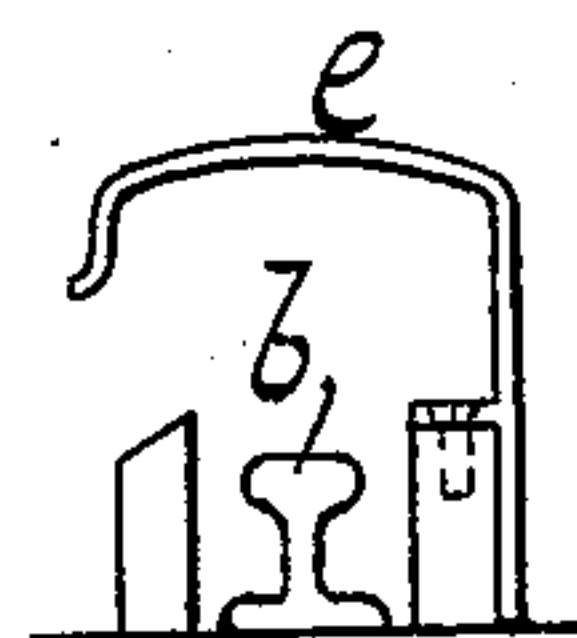
Fig. 2.



WITNESSES:

William Miller
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Fig. 3.



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GUARD FOR THIRD RAILS.

SPECIFICATION forming part of Letters Patent No. 725,622, dated April 14, 1903.

Application filed December 22, 1902. Serial No. 136,299. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. HORNUNG, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented new and useful Improvements in Guards for Third Rails, of which the following is a specification.

The object of this invention is to provide a guard for third rail or electrically-charged rails, said guard being adapted to prevent the formation of ice on the rail or the settling of snow, sleet, or other accumulation thereon, and also offering protection against accidental contact with such rail, while allowing a shoe or contact free access to the rail for the purpose of utilizing the power as required.

This invention is applicable to elevated and other railroads or conveyances and elsewhere as required.

This invention is set forth in the following specification and claim and illustrated in the annexed drawings, in which—

Figure 1 is an end view of the guard. Fig. 2 is a perspective view of the same. Fig. 3 shows the guard applied at a different point from that shown in Fig. 1.

In the drawings the rails of a track are shown at *a*. The third or conductor rail is shown at *b*. A contact, such as a shoe or arm *c*, conveys the power to a car *d* or to the motor of such car or vehicle or other object.

The guard is shown at *e*. By having the guard rest alongside of the rail and made to overhang the latter a roof or cover is formed, preventing foreign matter dropping or settling on such rail. This guard is shown made to overhang the rail from one side while giving access to said rail from the other side. Access to said rail is thus allowed from the side for a shoe or contact to reach to and move or slide along the rail.

The guard is insulated or mounted clear from the rail. By being mounted clear from electrical contact with the rail and made to

extend from one side over the top of the rail the latter is shielded and no charge can escape or leak from the rail to the guard.

The guard can be made of metal or other suitable material. Such guard can be secured to either the outside or inside of one of the wooden rails, usually placed alongside the steel rails in elevated and other structures.

In Fig. 1 the guard is shown secured to the inside of a wooden rail, and in Fig. 3 such guard is secured to the outside of such rail. In both cases the body of the guard is provided with a longitudinal flange *e'*, adapted to be fastened to the upper side of a wooden rail or equivalent support mounted in proximity to the third rail. In the form of the guard shown by Fig. 2 the flanges are upon the outside thereof, while the reverse is the case in the guard illustrated by Fig. 3. Otherwise both forms of the device are the same. It will be seen upon referring to said figures that the flange is situated substantially centrally of the height of the guard, whereby the body of the latter can be fitted flatwise against the wooden rail to bring the flange over the top of the latter, so as to secure the guard in place in a thoroughly substantial manner.

What I claim as new, and desire to secure by Letters Patent, is—

A third or electrically-charged rail combined with a guard in proximity to and made to overhang the rail, the body of the guard having a longitudinal flange substantially centrally of its height, and a support against which the body of the guard fits flatwise, the flange of the body being adapted to fit over the top of the support.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

CHARLES W. HORNUNG.

Witnesses:

E. F. KASTENHUBER,
CHAS. E. POENSGEN.