(No Model.)

S. E. WHEATLEY.

CONDUIT FOR ELECTRIC RAILWAYS.

No. 441,221. Patented Nov. 25, 1890.

Fig. 1.

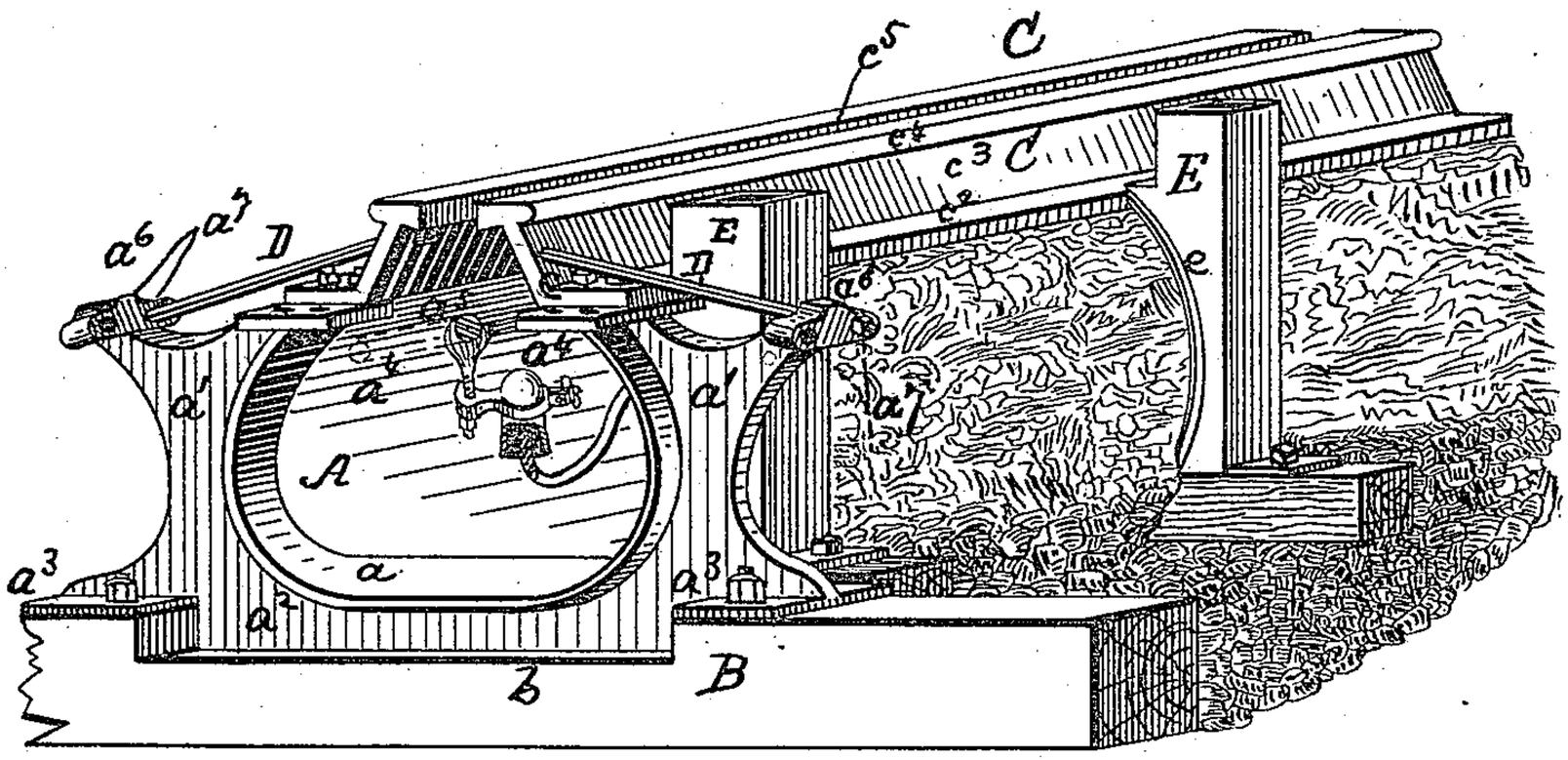

Fig. 2.

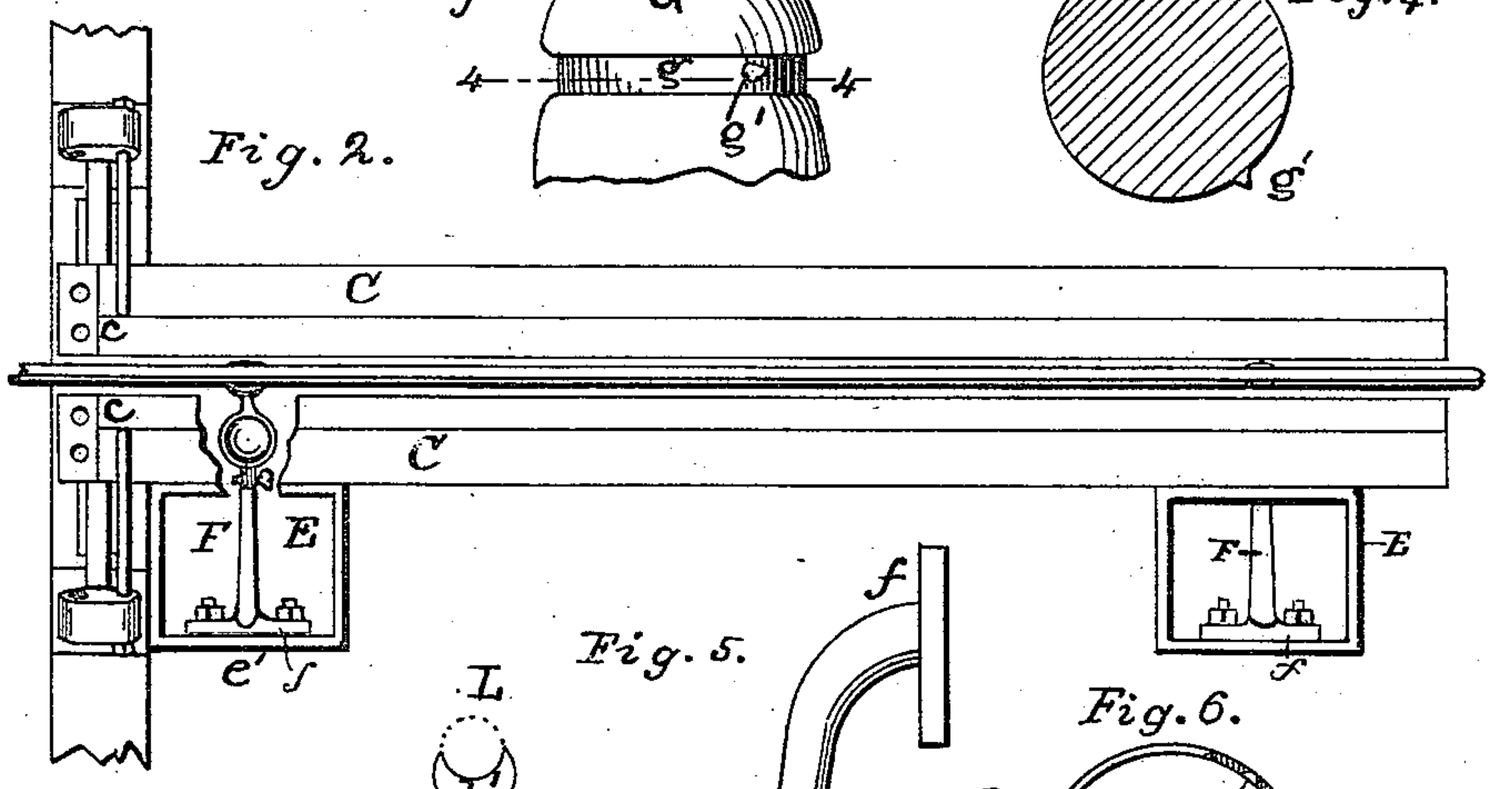

Fig. 3.

Fig. 4.

Fig. 5.

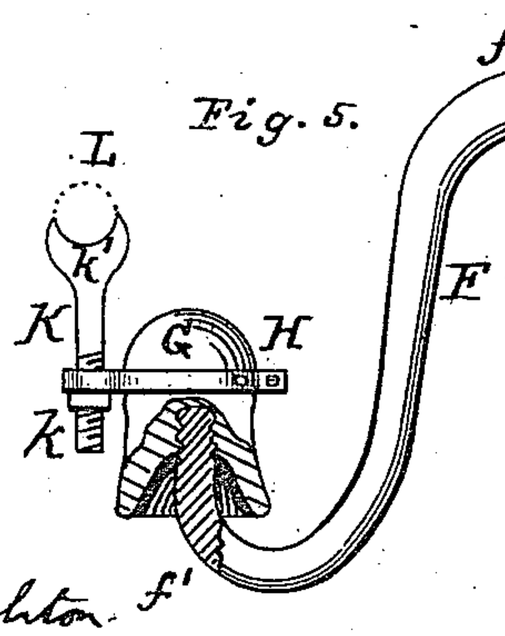

Fig. 6.

Witnesses
Thos. Houghton.
W. E. Barker

Inventor
Samuel E. Wheatley,
By W. K. Singleton,
his Attorney

UNITED STATES PATENT OFFICE.

SAMUEL E. WHEATLEY, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR TO THE WHELESS ELECTRIC RAILWAY COMPANY, OF ALEXANDRIA, VIRGINIA.

CONDUIT FOR ELECTRIC RAILWAYS.

SPECIFICATION forming part of Letters Patent No. 441,221, dated November 25, 1890.

Application filed August 28, 1890. Serial No. 363,345. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL E. WHEATLEY, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Conduits for Electric Railways; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Figure 1 is a perspective view of the device. Fig. 2 is a top view. Figs. 3 and 4 are side and sectional views of the insulator. Fig. 5 is a detail view showing the trolley-line support. Fig. 6 is a top view of the yoke.

This invention relates to improvements in conduits for electric-railway systems, and it consists in the construction hereinafter pointed out.

In the annexed drawings the letter A indicates a bracket cast in one piece. This bracket is elongated and has the curved flange a, the webs a' a' on the sides, the lower projection a^2, the bearing-plates a^3 a^3 at each end of the projection, the supporting-plates a^4 a^4 at the top, between which is the opening a^5 and the bosses a^6 a^6 at the outside, provided with holes a^7 a^7. These brackets are put into place in the cross-ties at suitable distances apart, there being a depression b cut in the cross-ties B to receive the projection a^2, and the brackets are bolted through the plates a^3 a^3 to the ties.

To the supporting-plates a^4 a^4 are secured the ends c of the cover-plates C. These have the base-flanges c^2, the upright webs c^3, and the top flanges c^4, there being a slot c^5 between the tops of the cover-plates. Bolts D pass from the ends c of the plates C and are secured in the holes a^7 of the bosses a^6, thus bracing the cover-plates.

At suitable places along the track are placed boxes or traps E, separate and distinct from the brackets. These traps may have the inside curvature e adapted to that of the interior of the conduit. Secured in the trap, to the outer end e' thereof by its upper end f, is the working-conductor support. This is an arm F, which projects laterally into the conduit and has the lower end f' rising upward and screw-threaded. At this screw-threaded end f' is secured an insulator G, preferably of glass. This insulator G has a neck g and may be provided with teats g' in the neck. Clamped around this neck is the yoke H, having holes h, in which the teats g' fit. This yoke has a hole h' in the inside and in this hole h' is held a stem k of the working-conductor holder K, the stem being screw-threaded and held by a nut. The top of the holder K has the concave k' and is in a line under the slot c^5 between the tops of the cover-plates. In these concaves is suitably secured the working-conductor L. This construction produces a compact and strong device. The conduit will resist any strain and the traps readily allow of easy access to the working-conductor supports.

Having described my invention, what I claim is—

1. In an electric-railway system the working-conductor of which is underground, the combination of an open-slotted conduit supported upon brackets, a working-conductor in such conduit, supports for such conductor, and boxes separate and distinct from the brackets, and in which boxes the conductor-supports are secured, as set forth.

2. As a supporter for working-conductor of an electric-railway system, the arm F, having means for fastening it at one end, the insulator G, secured to the other end of said arm, the yoke H around such insulator, and the holder K, secured to the insulator by the yoke, as set forth.

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

SAMUEL E. WHEATLEY.

Witnesses:

GRAHAM L. GORDON,

THOS. HOUGHTON.