

SCIENCE

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CINCINNATI INCLINED-PLANE RAILWAY.

IN the accompanying engraving we give a view of one of the Sprague electric cars on the Cincinnati Inclined-Plane Street-Railway. This railway runs from the centre of Cincinnati to the foot of an incline, where the cars are hoisted on elevators to the top of the bluff which surrounds Cincinnati, and there run by means of electricity through the suburbs to the Zoölogical Gardens. This is the first electric incline installed in Cincinnati, and shows how successfully the street-railway problem in that city has been solved, and how a substitute for cable-roads has been gained. The view

three span wires are used, although the street is two hundred feet wide. This could only be possible with the light silicon-bronze trolley wire of the Sprague system, by means of which only a small portion of current is required to be carried from the centre of the street, while the greater portion is carried on main conducting-wires on the side of the street.

The equipment of this road includes twenty cars, all equipped with the Sprague improved electric-railway motor, and all the latest improvements adopted by the Sprague Company upon their most recent roads. It may be called one of the finest electric rail-



CINCINNATI INCLINED-PLANE RAILWAY.

given shows the car rounding the corner of Fifth and Walnut Streets; the post-office being on the right, and Fountain Square on the left.

The style of poles used is shown by a single iron pole on the corner, and is a sample of the kind of poles used throughout the line. These iron poles are only four inches at the top, and are very much lighter and neater-looking than the ordinary electric-railway pole. In the residential district the streets are bordered with trees, so that the poles are completely covered, and by the casual observer cannot be seen.

On Fifth Street, just to the right of the poles shown in the engraving, there is a stretch of five hundred and fifty feet where only

ways in the country. The equipment is first-class throughout. The track is laid entirely of steel rails, and iron poles are used throughout the entire electric line. The employees of the road are all dressed in uniform; the men in charge of the motor having a band around their hats with the word "motorneer" inscribed, while the conductors are designated in an appropriate manner.

The president of this road is Mr. H. H. Littel, who is widely known in street-railway circles as one of the most successful street-railway managers in central United States. The general manager of the road is Mr. H. M. Littel, to whom the success of the road is in a great measure due.