(No Model.)

E. W. EDWARDS, Dec'd.

M. A. EDWARDS, Administratrix.

SIGNAL FOR CABLE ROADS.

No. 510,593. Patented Dec. 12, 1893.

Fig. 1.

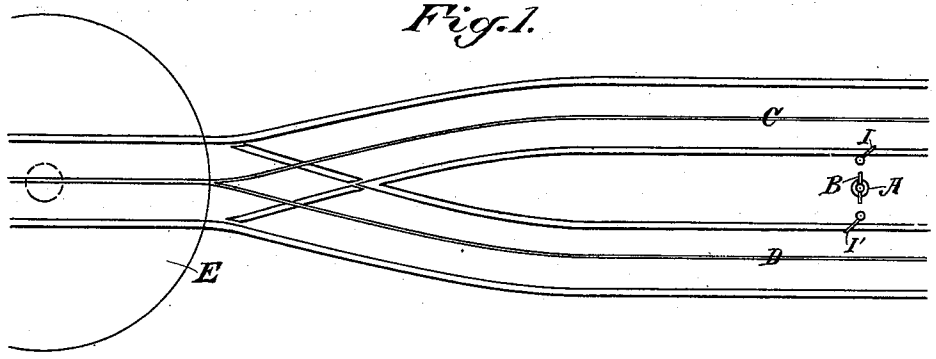
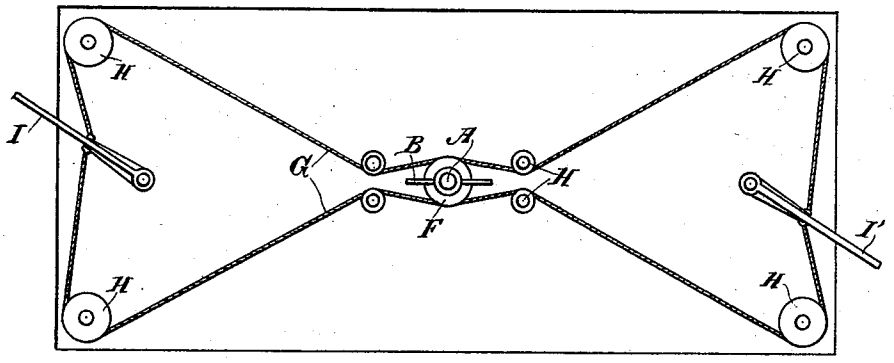


Fig. 2.



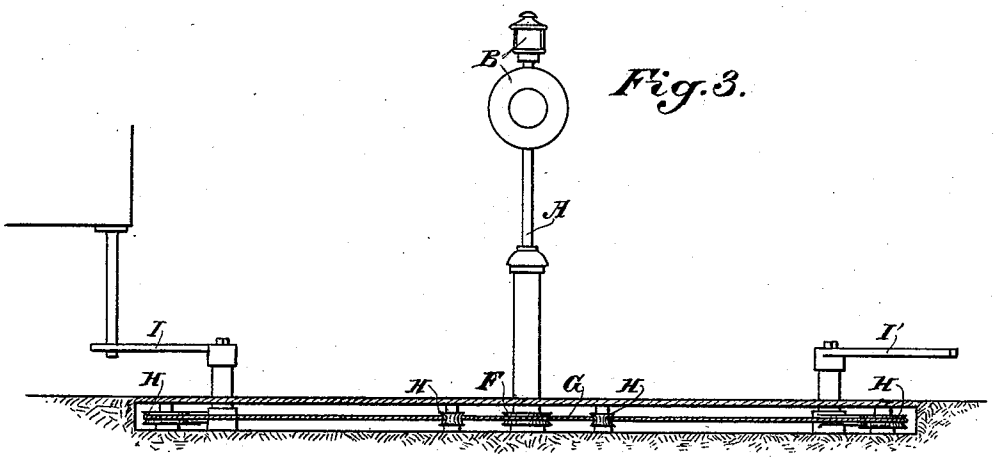


Fig. 3.

Witnesses,
J. B. Howe
H. F. Ascheck

Margaret A. Edwards
Administratrix of the Estate
of Edward W. Edwards
Dec'd.
Inventor,
By Dewey & Co.
Attys

THE NATIONAL LITHOGRAPHING COMPANY,
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UNITED STATES PATENT OFFICE.

MARGARET A. EDWARDS, OF SAN FRANCISCO, CALIFORNIA, ADMINISTRATRIX OF EDWARD W. EDWARDS, DECEASED.

SIGNAL FOR CABLE ROADS.

SPECIFICATION forming part of Letters Patent No. 510,593, dated December 12, 1893.

Application filed August 28, 1893. Serial No. 484,252. (No model.)

To all whom it may concern:

Be it known that EDWARD W. EDWARDS, deceased, late of the city and county of San Francisco, State of California, did invent an Improvement in Signals for Cable Roads, of which the following is a specification.

This invention relates to a signal which is especially adapted to be used in conjunction with cable railways at a point where the cars are run upon a turn-table to be turned around, and from which table the cars depart in the same direction from which they arrived.

It consists of a movable signal and mechanism whereby the signal is automatically changed by the passage of a car in either direction.

Referring to the accompanying drawings for a more complete explanation of this invention,—Figure 1 is a view of a turntable and connections with my signal in its proper position. Fig. 2 is a plan view of my signal device. Fig. 3 is an elevation of the same.

In the case of cable railways, it is customary to place turn-tables at the end of a line, upon which the cars are run to be reversed, and thence depart over another track in the same direction as that from which they arrived. When a single track passes across the table, the incoming and outgoing tracks are correspondingly curved so as to deliver the cars from the incoming track upon this single track on the table, and to deliver them as they pass off the table upon the outgoing track. In many cases where these tables are used the traffic is very large. Cars run on to and off the table at intervals of less than one minute, and in order to indicate to the gripman of an approaching car the position of the table and whether it is ready to receive his car or not, I employ a signal which consists of a vertical post A having a lantern or other suitable signal B upon the upper end. If the signal is to be used at night, it may consist of a square lantern having colored glasses, one of which may be red to indicate danger, or that the table is not in the right position to receive a car, and the other some other color to indicate that the table is in the proper position. For daylight signals, similar colored targets may be employed upon the same post or standard. This post or standard is journaled to turn in suitable supports between the two tracks C and D at a sufficient distance from the turn-table E, and it has a pulley F secured to the lower end thereof around which passes an endless rope or cord G. H H are guide pulleys around which this endless rope passes, and when the rope is moved in one direction it will rotate the pulley F and the post A in that direction. When rotated in the opposite direction, it will rotate the post correspondingly the opposite way.

I I′ are two oppositely extending levers one upon each side of the post and suitably fulcrumed with relation to the endless rope G, which is also attached to the levers at points a short distance from the fulcrums as shown.

Each car has a projecting arm which is adapted to engage the end of one of the levers I I′ as it passes.

The operation will then be as follows: When the car arrives upon the track C, the target or signal being turned so as to indicate a clear track, the car is allowed to pass in upon the table E, and as it passes the lever I which projects upon that side of the signal, it engages the lever and turns it so as to rotate the signal post and turn the danger signal to face the incoming car. This car then passes upon the turn-table, leaving the signal in that position, and the table is turned around, being stopped again in position to allow the car to pass out over the track D. When the car thus passes out it engages the other lever I′, and acting upon this lever it moves the endless rope G, and through it turns the signal post so as to present the signal for a clear track toward the cars which are coming in upon the track C, thus notifying each approaching car either that the track is not in condition for it to run upon the table, or that it is in such condition.

What is claimed is—

1. A turntable post mounted between the inner rails of parallel tracks of a railway, and having signals or targets, an endless rope and guide pulleys around which it passes, and levers upon opposite sides of the post each having one end fulcrumed and the opposite end extending outwardly in the path of a car traveling over the tracks, said levers being relatively reversed and being connected with

the rope at points between their inner and outer ends, whereby the movement of one lever in one direction operates the companion lever in an opposite direction, substantially as herein described.

2. The combination with the rails of a pair of tracks each leading to a common terminal, of a turntable post located between the inner rails of the tracks having a pulley upon its lower end and a signal at its upper end, guide pulleys upon opposite sides of the post, an endless rope passing around said pulleys, and levers fulcrumed at their inner ends and let into the length of the rope, said levers being located upon opposite sides of the post and being relatively reversed whereby they extend in opposite directions with their free ends in the path of cars, and being connected with the rope so that the movement of one lever in one direction simultaneously operates the companion lever in a reverse direction and discloses a signal to the car on the opposite track, substantially as herein described.

In testimony whereof I, MARGARET A. EDWARDS, administratrix of the last will and testament of EDWARD W. EDWARDS, deceased, have affixed my mark to this specification in the presence of two subscribing witnesses.

MARGARET A. her × mark EDWARDS,
Administratrix of the estate of Edward W. Edwards, deceased.

Witnesses:
GEO. H. STRONG,
S. H. NOURSE.