

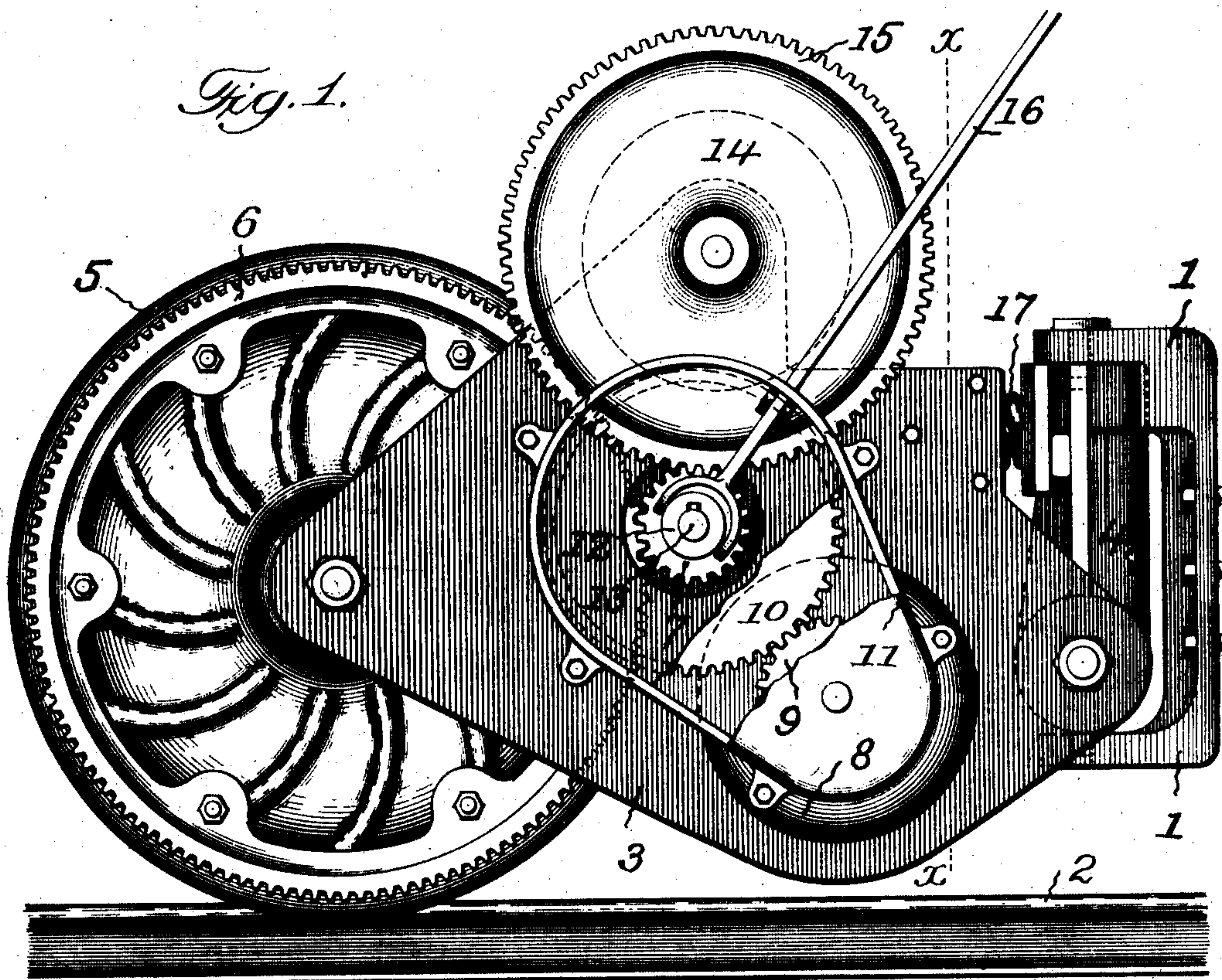
No. 864,799.

PATENTED SEPT. 3, 1907.

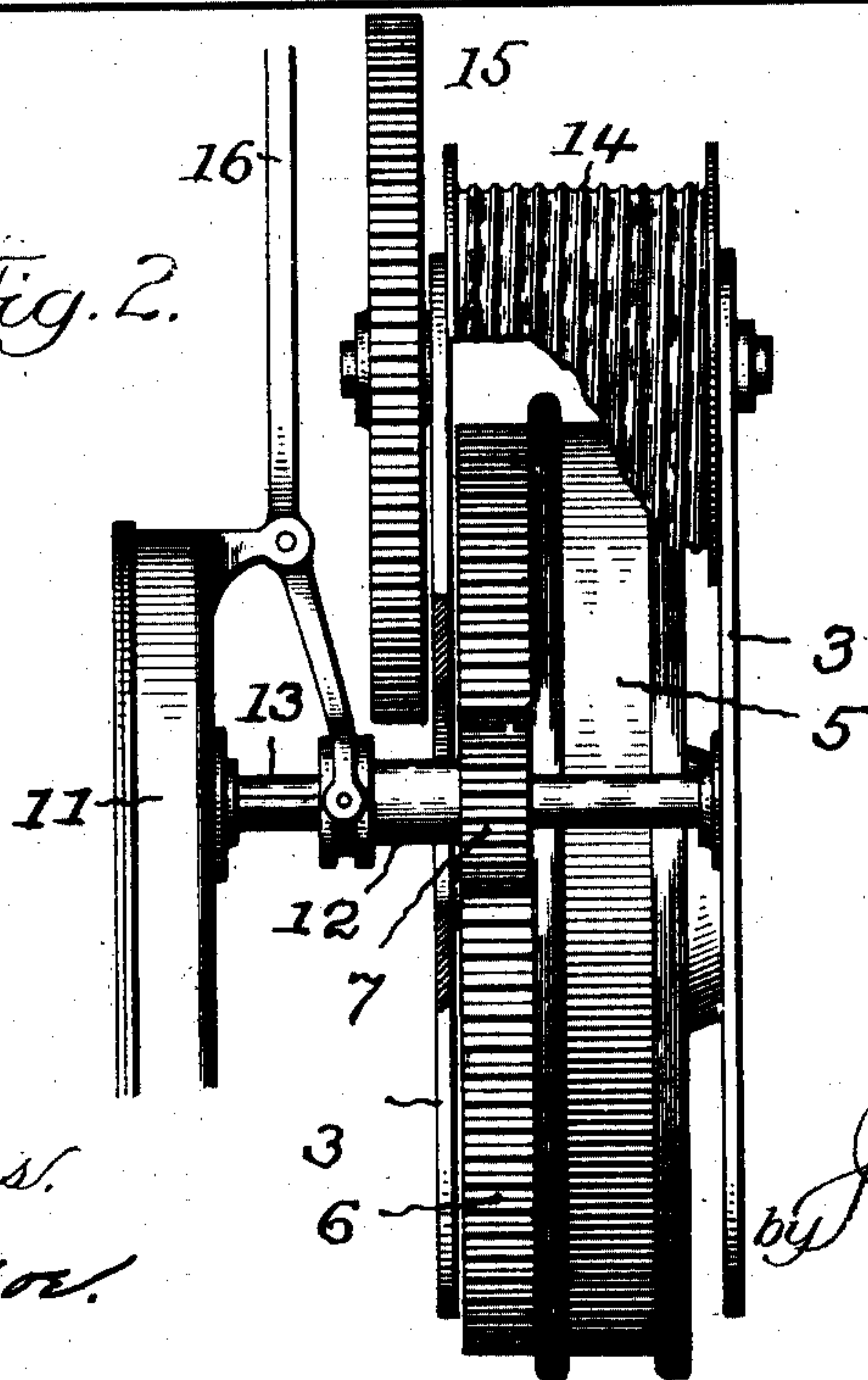
J. L. PILLING.

OPERATING MECHANISM FOR TURN TABLES.

APPLICATION FILED MAR. 5, 1907.



*Fig. 2.*



Attest:

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# UNITED STATES PATENT OFFICE.

JAMES L. PILLING, OF CHICAGO, ILLINOIS.

## OPERATING MECHANISM FOR TURN-TABLES.

No. 864,799.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed March 5, 1907. Serial No. 360,794.

*To all whom it may concern:*

Be it known that I, JAMES L. PILLING, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented  
5 certain new and useful Improvements in Operating Mechanisms for Turn-Tables, of which the following is a specification.

This invention relates to that type of operating mechanism for turntables in which a motor driven traction  
10 wheel is arranged at an end of the turntable and has traction engagement with the circular tram rail of the turntable to impart a turning movement thereto. And the present improvement has for its object to provide a simple and efficient attachment for turntables combin-  
15 ing means actuated by a single motor for imparting a turning movement to the turntable, and for operating a windlass in effecting the handling of a "dead" locomotive or the like, all as will hereinafter more fully appear.

20 In the accompanying drawings:—Figure 1, is a side elevation of the present apparatus, with parts of the frame or housing broken away to illustrate the operative portions of the mechanism. Fig. 2, is a transverse sectional elevation, on line  $x-x$  Fig. 1.

25 Similar numerals of reference indicate like parts in both views.

Referring to the drawings, 1 represents a bracket piece adapted for attachment to an end portion of a railway turntable, and provided with vertical pivot  
30 eyes for the pivotal attachment of present apparatus in the vertically and horizontally adjustable manner hereinafter described.

2, is a portion of the circular tram rail upon which the apparatus rides.

35 3, is the truck frame of the apparatus formed preferably by a pair of plate members arranged in separated relation and pivotally attached at one end by a horizontal pivot pintle to an intermediate knuckle member 4, which in turn has pivotal connection by a vertical  
40 pivot pintle with the pivot ears of the bracket 1 aforesaid, to afford a universal adjustment to the truck frame.

5, is the traction wheel journaled in the free end of the truck frame 3, and provided at one side with a gear  
45 6, as shown.

7, is a pinion carried by a countershaft journaled in the truck frame 3, and adapted to have driving engagement with the gear 6, aforesaid.

8, is a motor of any ordinary type mounted on the  
50 truck frame 3, and having operative engagement with the carrying shaft of the pinion 7 by intermediate gearing 9 and 10, as shown.

11, is a housing or casing inclosing the gearing 9 and

10, to protect the same from the elements as well as from accidental interference. 55

The arrangement of parts so far described is old in the present class of operating mechanisms for turntables, and is described in the subject matter of my prior Letters Patent No. 787,693 of April 18th 1905; the novelty of the present improvement consisting in the combination with such mechanism, of a windlass mechanism carried by the truck frame aforesaid, and having operative connection with the motor, and means for alternately connecting one or the other mechanism with  
60 said motor. 65

The particular mechanism shown in the drawing as illustrative of one form of the present invention comprises a construction as follows:—

12, is a hub sliding on splined or non-circular portion of the countershaft 13, and attached to the driving pin-  
70 ion 7 aforesaid, to render the same laterally adjustable. 14, is a windlass drum mounted on the upper part of the truck frame 3, and provided at one end with a gear wheel 15, arranged in a plane to one side of the gear 6, of the track wheel aforesaid, and adapted to mesh with  
75 and receive motion from the pinion 7, when the same is moved laterally into engagement therewith.

16, is an operating lever engaging the sliding hub 12 and adapted to impart lateral adjustment to said hub and to the pinion 7 attached thereto, and so that with  
80 said pinion in one position, the same will be in operative engagement with the gear 6 of the traction wheel to impart rotation thereto and a turning movement to the turntable; and when in its other position said pinion will be out of mesh with the gear 6, and in mesh with  
85 the gear wheel 15 to operate the windlass drum 14, in the handling of an adjacent locomotive, or other like use.

17, is a spring for holding the truck frame and its traction wheel in tractile contact with the tram rail. 90

Having thus fully described my said invention what I claim as new and desire to secure by Letters Patent, is:—

1. A turntable attachment comprising a frame adapted for attachment to an end of a turntable, a traction wheel  
95 and a windlass carried by said frame, a driving motor mounted on said frame, and means for operatively engaging said motor with either the traction wheel or the windlass, substantially as set forth.

2. A turntable attachment comprising a frame adapted for attachment to an end of a turntable, a traction wheel and a windlass carried by said frame, a driving motor mounted on said frame, intermediate gearing between the traction wheel and the motor and between the windlass and the motor, and means for engaging the motor with  
100 the gearing of the traction wheel or with the gearing of the windlass, substantially as set forth. 105

3. A turntable attachment comprising a frame adapted

for attachment to an end of a turntable, an intermediate universal connection between said frame and the turntable, a traction wheel and a windlass carried by said frame, a driving motor mounted on said frame, and means  
5 for operatively engaging said motor with either the traction wheel or the windlass, substantially as set forth.

4. A turntable attachment comprising a frame adapted for attachment to an end of a turntable, a traction wheel and a windlass carried by said frame, a driving motor  
10 mounted on said frame, a spring imposing tractile contact

upon the traction wheel with the tram rail, and means for operatively engaging said motor with either the traction wheel or the windlass, substantially as set forth.

Signed at Chicago, Illinois, this 8th day of February 1907.

JAMES L. PILLING.

Witnesses:

ROBERT BURNS,  
HENRY MOE.