

APPLICATION FILED DEC. 4, 1909.

Patented Mar. 28, 1911.

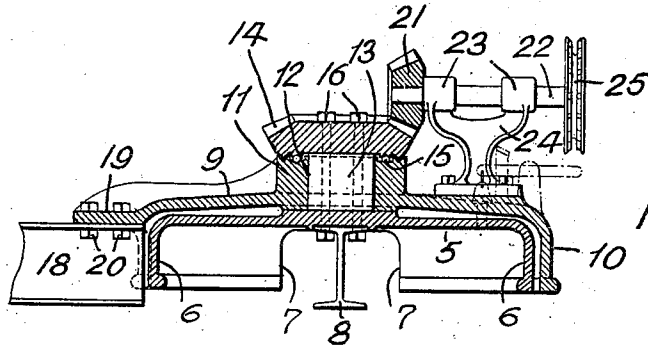


Fig. 2.

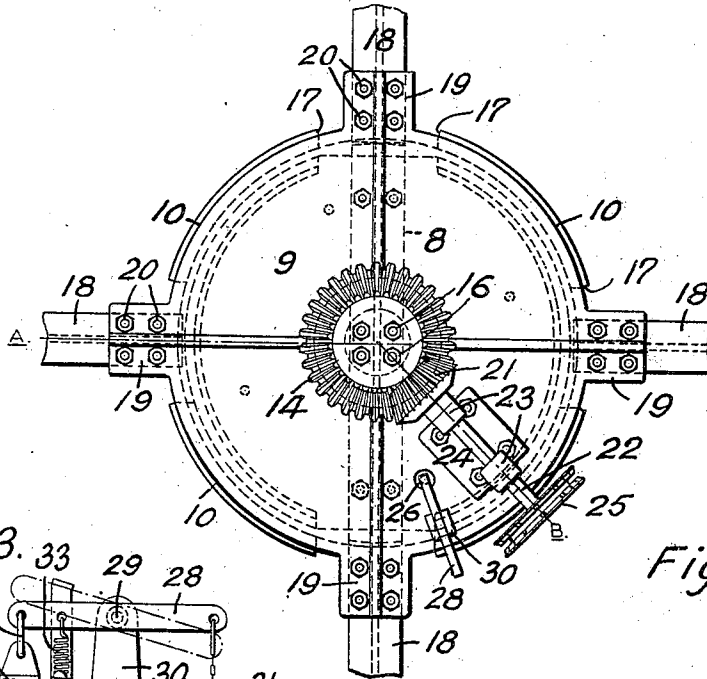


Fig. 1.

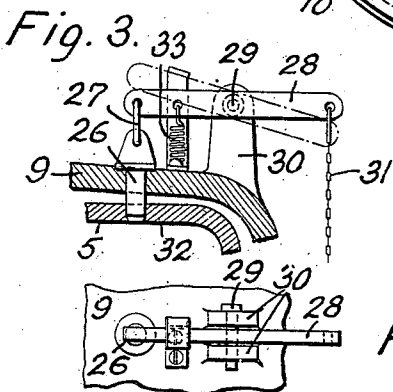


Fig. 4.

Witnesses

Stuart K Walker

C. R. McKenzie.

Inventor

Peter McLaren.

By

Frank Salomonson
His Attorney.

UNITED STATES PATENT OFFICE.

PETER McLAREN, OF MONTREAL, QUEBEC, CANADA.

TURN-TABLE.

988,276.

Specification of Letters Patent.

Patented Mar. 28, 1911.

Application filed December 4, 1909. Serial No. 531,349.

To all whom it may concern:

Be it known that I, PETER McLAREN, of the city of Montreal, in the Province of Quebec and Dominion of Canada, have invented certain new and useful Improvements in Turn-Tables, of which the following is a full, clear, and exact description.

This invention relates to improvements in turn-tables and is particularly adapted for use in connection with overhead trolley carrying systems in factories, foundries, and the like.

The main object of the invention is to provide a turn-table which may be inserted at the intersecting points of overhead carrying lines by means of which loads may be transferred with great ease, safety and rapidity from one line of track on to any other line, to thus permit the transfer of materials or machines to and from all parts of the shop.

In systems of this character it is customary to use an I-beam or rail, of suitable section, as a track upon which any suitable carriage is mounted. The different lines of track usually intersect at one or more points and, at the points of intersection, the carriage with the load is transferred from one track to another.

My invention consists essentially of a turn-table adapted to be inserted at the intersecting tracks, said turn-table comprising an inverted cup-shaped revoluble disk carrying a track centrally thereon and mounted below a similar stationary disk like frame to which are secured the various track rails. The revoluble disk carries a sleeve or bushing adapted to rotate within a boss on the stationary disk and to this sleeve is attached a beveled gear wheel which coöperates with a pinion connected with a hand wheel by means of which the turn table may be revolved.

In the drawings which illustrate my invention:—Figure 1 is a plan view of the turn table. Fig. 2 is a sectional view on the line A—B of Fig. 1. Fig. 3 is a sectional view of the locking device. Fig. 4 is a plan view of same.

Referring to the drawings, 5 designates a circular revolving disk having depending flanges 6 which are cut away on opposite sides of the center, as indicated by the numeral 7, to permit a track rail 8 of suitable section to be suspended from the disk or turn-table 5. A similar stationary disk or frame 9, having depending flanges 10, is

mounted above the disk or turn-table 5 and within this frame the turn-table rotates. The stationary frame 9 is provided on its upper side with a boss 11 having a central aperture 12 within which is mounted the collar or bearing sleeve 13. A beveled gear wheel 14 is carried by the collar 13, said beveled wheel being adapted to rotate on the top of the boss 11 upon a set of ball bearings 15. The gear wheel 14 and collar 13 are secured to the turn-table 5 by means of bolts or other suitable devices 16, which extend through the flanges of the rail 8, thus holding the parts firmly in position. The flanges 10 of the stationary frame 9 are cut away at various points to permit the intersecting track lines to communicate with the track 8 of the turn-table.

It is obvious that, although I have shown only four tracks radiating from the turn-table, any number of tracks might enter said turn-table radially to connect with the track 8. The various track rails 18 are secured to the horizontally turned flange 19 of the stationary frame 9 by means of the bolts 20. To rotate the turn-table 5, I provide a gear pinion 21 coöperating with the beveled gear 14, said pinion being mounted on a shaft 22 carried in bearings 23 which are supported upon a bracket 24 mounted upon the frame 9. The shaft 22 carries at its outer end a chain wheel 25 around which a chain may be placed to operate the gear wheel and pinion by rotating the chain wheel 25 in either direction. It will be obvious that the turn-table may be revolved to bring the track 8 into alinement with any of the intersecting tracks 18. The dependent flange 10 of the stationary frame will prevent the carriage which is mounted on the track 8, from running off the turn-table except on to the track desired. Similarly the depending flanges 6 of the turn-table will prevent any incoming carriages from running off their tracks until the track 8 is in line with same. By this means the device will be rendered perfectly safe for loads when mounted either on the turn-table or the various intersecting tracks.

To hold the track 8 of the turn-table in alinement with the various intersecting tracks, I provide a stop pin 26 carried by a link 27 in the end of a lever 28 pivoted on the pin 29 mounted in a pair of lugs 30 in the stationary frame. The lever 28 is provided at its opposite end with a pull chain

31, by means of which the pin may be raised out of the apertures 32 which are placed at intervals in the turn-table 5. A spring 33 is adapted to hold the lever 24 downwardly toward the stationary frame to keep the pin 26 in the aperture 32, to thus prevent the turn-table from accidental displacement. The apertures 32 are located at such points that the track 8 can be brought into and held in alinement with any of the radial tracks.

By means of this device, loads suspended from any suitable carriage may be transferred from one overhead track rail to any other in a safe and expeditious manner.

The device consists of few parts that can be easily made and assembled, and operates with ease and simplicity.

Having thus described my invention, what I claim is:—

1. A device of the class described comprising a stationary frame, a rotatable disk mounted below said frame, circumferential flanges depending from said disk adapted to prevent access to said disk except at certain points, and a track carried by said disk, substantially as described.

2. A device of the character described comprising a frame having flanges depending therefrom, a disk having circumferentially depending flanges mounted on said frame, a gear wheel connected with said disk, a pinion coöperating with said gear wheel, means for rotating said pinion, and

means for locking the rotatable disk at any desired point, substantially as described.

3. The combination with a series of radially disposed tracks, of a frame mounted on said tracks, a turn-table rotatably mounted in said frame, a track carried by said turn-table, flanges depending from said frame to prevent access to the turn-table except at certain points, and flanges depending from the turn-table to prevent communication between the turn-table and the radial tracks except at certain points, substantially as described.

4. The combination with a series of radial tracks, of a frame mounted on said tracks, flanges depending from said frame, a turn-table depending from said frame and adapted to rotate within same, a track carried by said turn-table, circumferential flanges depending from said turn-table, means for alining said track with any one of the radial tracks, means for preventing access to the turn-table from any of the remaining tracks except the one in alinement, and means for locking the turn-table in position, substantially as described.

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

PETER McLAREN.

Witnesses:

STUART R. W. ALLEN,
C. W. TAYLOR.