A. MEIKLE.

RAILWAY TURN TABLE.

APPLICATION FILED AUG. 4, 1914.

1,122,144.

Patented Dec. 22, 1914.

2 SHEETS—SHEET 1.

Fig. 1.

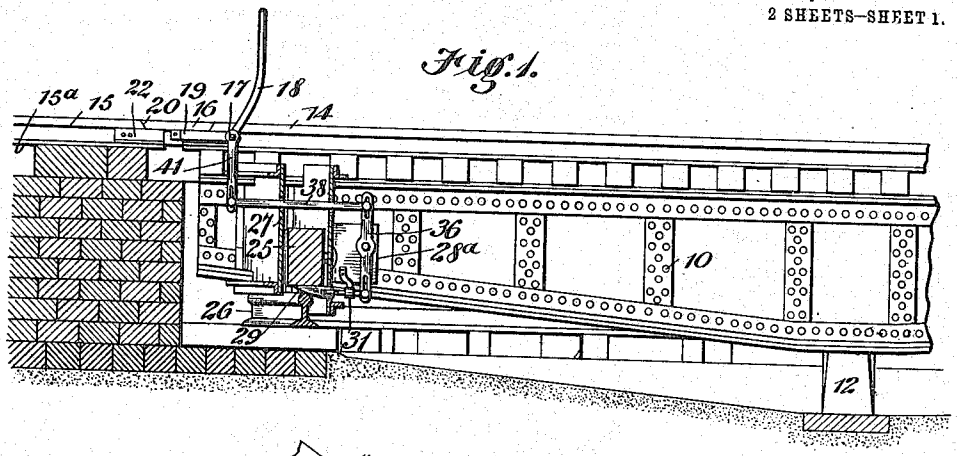
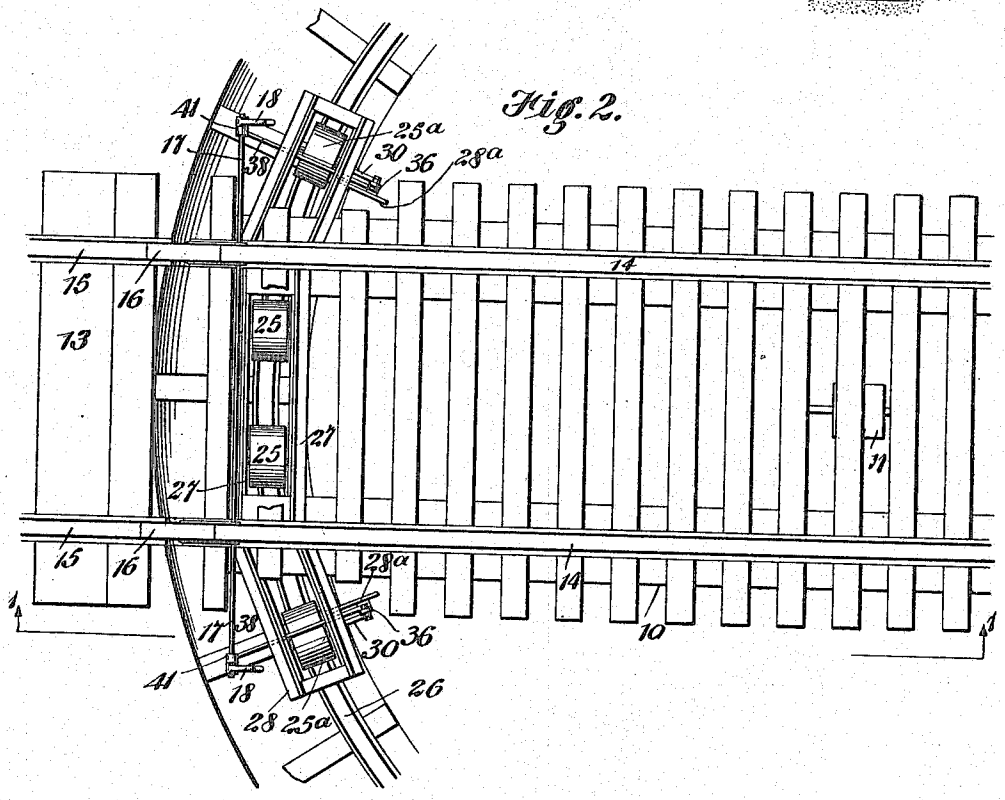


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

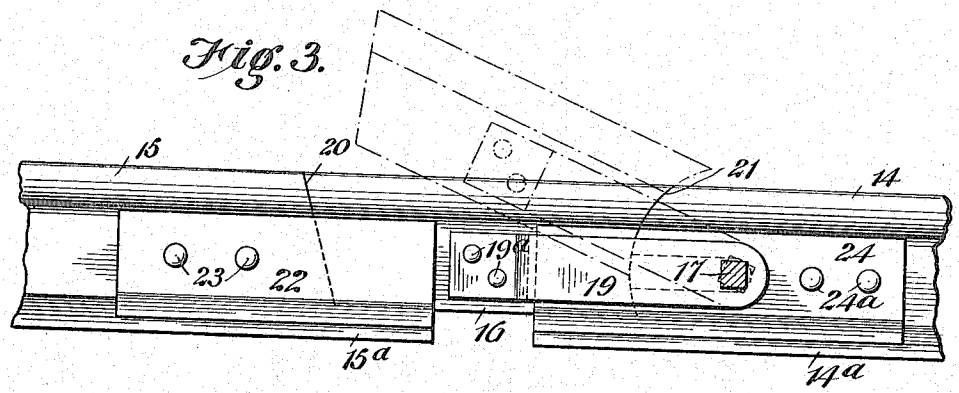


Fig. 4.

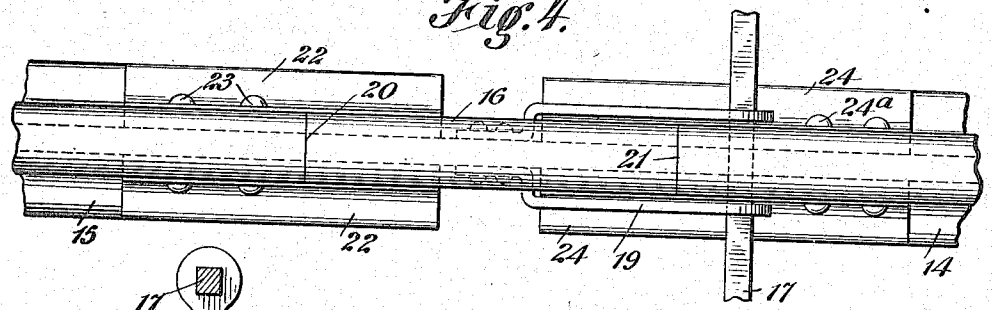
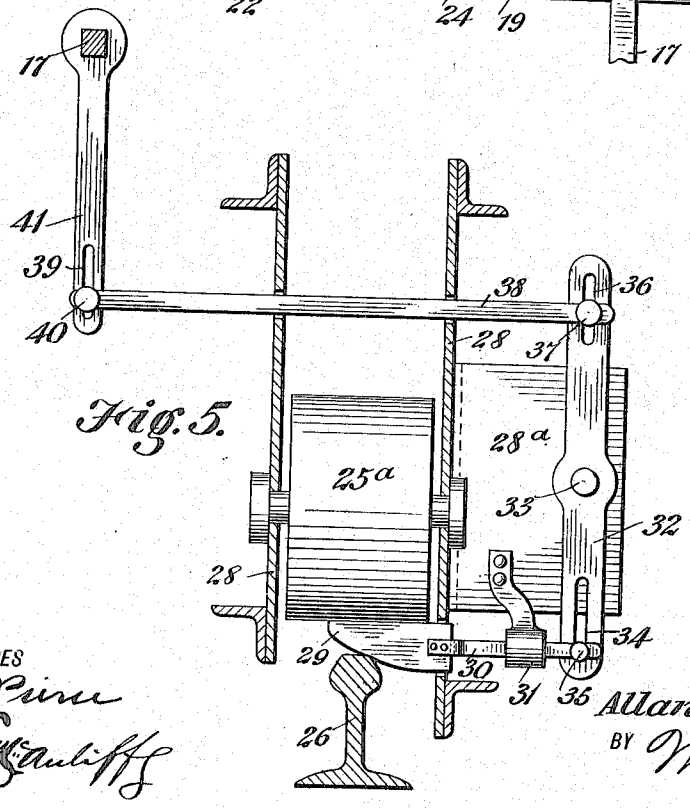


Fig. 5.



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RAILWAY TURN-TABLE.

1,122,144. Specification of Letters Patent. Patented Dec. 22, 1914.

Application filed August 4, 1914. Serial No. 854,915.

To all whom it may concern:

Be it known that I, ALLAN MEIKLE, a subject of the King of Great Britain, and a resident of Ignace, in the Province of Ontario and Dominion of Canada, have invented a new and Improved Railway Turn-Table, of which the following is a full, clear, and exact description.

In the use of ordinary railway turntables the breaking of car springs not infrequently results from the fact that the track rails of the turntable, at the periphery of the latter, are not firmly supported in line with the relatively fixed track rails leading to the turntable. Often the locomotive upon entering the turntable is permitted a drop of as much as three inches, which is liable to cause breakage of the springs and a serious delay in traffic. Damage to the table beams and the cement work around the table pit also results, and involves a considerable item of expense. Damage of the center bearing of the table is also liable to occur.

My invention provides means to chock the turntable at the periphery to prevent a depression thereof by the engine entering the same.

A further cause of injury to engines and the turntable is the fact that the track rails of the turntable do not make a close joint with the fixed tracks.

My invention provides means for producing a continuous track from the fixed track to that of the turntable, for which purpose use is made of a filler track section rockably mounted on the turntable, and in order that the filler track section and the chocks may move in unison, the said track section is mounted on a rock shaft and operative connections established between the said rock shaft and the chocks.

The invention will be more particularly explained in the specific description following.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a partial vertical section of a turntable and a relatively fixed track section illustrating one embodiment of my invention; Fig. 2 is a plan view of the elements shown in Fig. 1; Fig. 3 is a fragmentary side view of the adjacent ends of a turntable track rail and fixed track rail, together with a filler rail section arranged in accordance with my invention, the view being on an enlarged scale; Fig. 4 is a plan view of the parts shown in Fig. 3; and Fig. 5 is a detail cross sectional view showing a chock and means for moving the same.

In constructing the illustrated embodiment of the invention, the turntable 10 may be of any approved construction mounted on the customary center bearing 11, here conventionally illustrated (see Fig. 2), the center bearing having the usual base support 12, indicated conventionally in Fig. 1.

The numeral 13 designates a fixed track leading to the turntable, the track rails of the turntable being indicated by the numeral 14 and the fixed track rails by the numeral 15.

In order to form a continuous track to and from the turntable, I provide a movable track section consisting of filler rails or blocks 16 which are formed with heads and webs, as best seen in Fig. 3, but without rail flanges. In order to position the movable rail sections, these are mounted, in the illustrated example, on a rock shaft 17 having arms or levers 18 to rock said shaft. The connection between the rock shaft and the filler rail sections 16 may consist of straps 19 fixedly secured to the shaft 17, and embracing the webs of the rail sections 16, being secured to the latter by bolts or rivets 19^a.

The joints 20 between the filler rail section 16 and the fixed rail sections 15 are beveled, as seen in Fig. 3, and the joints 21 between said filler sections and the rails 14 of the turntable are preferably curved, the curvature being struck from the center of the rock shaft 17. The flanges 15^a of the track rails 15 preferably extend beyond the webs and heads of the rails; in any case I provide angle bars 22 on the track rails 15, which may be secured to the webs of said rails by bolts or rivets 23, said angle bars projecting beyond the heads of said rails so as to overlap the filler rail sections 16, when the latter are swung downward into alinement with the track rails. Similarly angle bars 24 are applied to the ends of the track rails 14 of the turntable, being secured by bolts or rivets 24^a. The angle bars 24 extend beyond the curved joints 21 to overlap the filler rail sections 16. The flanges 14^a of

the rails 14 extend equally with the angle bars 24.

Running wheels 25 or other bearing members are provided on the turntable 10 beneath the track thereof, the said rollers or other bearing members running on a fixed, circular track 26 beneath the turntable. Additional running rollers or equivalent bearing members 25^a are arranged outside of the track rails 14, which also run or have a bearing on the circular track 26.

In the ordinary turntable, the running wheels 25 or their equivalent, and the circular track 26 do not firmly support the turntable at the periphery, there being a vertical play permitted, so that when an engine enters the turntable the latter drops with the engine. In order to sustain the turntable against depression by the engine, and thus maintain the track rails 14 in alinement with the fixed track rails 15, I provide chocks, here shown as sliding chocks 29. These are arranged to enter between a member appurtenant to the turntable and a relatively fixed member, such as the circular track 26. In the illustrated example these chocks 29 are shown as being movable to wedge themselves between the heads of the rails of the circular track 26 and the rollers 25^a. The rollers 25 have bearings in any suitable frame members of the turntable, as for instance, in plates 27, and the rollers 25^a have bearings in similar plates 28. It is desirable that the movements of the chocks 29 be in unison with the movements of the filler rail sections 16, and for this purpose I establish an operative connection between these elements. The means for establishing this operative connection, in the present instance, are as follows: A shank 30 is provided on each chock 29, and has sliding movement in a bracket bearing 31, which may be pendent from any fixed member of the turntable, as for instance, a plate 28^a on a frame member 28. The shank 30 connects with a lever 32 by a slot and pin connection 34, 35, the lever being fulcrumed between its ends as at 33. Similarly there is a slot and pin connection 36, 37, between the opposite end of the lever 32 and a link or connecting bar 38, the opposite end of which has a slot and pin connection 39, 40, with an arm 41 on the rock shaft 17 carrying the filler rails.

By the described construction it will be seen that a rocking of the shaft 17 in either direction through the medium of the handle levers 18, will raise or lower the filler rail sections 16, and in unison therewith the chocks 29 will be moved to a position beneath a roller 23^a or withdrawn from such member.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In an apparatus of the character described, a turntable having track rails, relatively fixed track rails leading to the turntable and terminating short of the path of movement of the track rails on the turntable, filler rail sections, a rock shaft mounted on the turntable and carrying said rail sections, means to rock said shaft to locate the said rail sections in line with the rails of the turntable and fixed track, or out of line therewith, bearing elements on the turntable near the periphery, a fixed track for said bearing elements, a chock movably mounted on the turntable adjacent to the last-mentioned track, between said track and a member of the turntable, and operative connections between the rock shaft and the chock to shift the latter in unison with the filler rail sections.

2. In an apparatus of the character described, a turntable having a track, a fixed track leading thereto, filler rail sections movably mounted adjacent to the ends of one of said tracks, means for moving said filler rail sections into or out of alinement with the rails of the turntable track and fixed track, a chock for the turntable, to prevent depression thereof as an engine enters thereon, and means to move the chock in unison with the movements of the filler rail sections.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALLAN MEIKLE.

Witnesses:
W. T. GORMAN,
FREDRICK THOMAS ALLEN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."