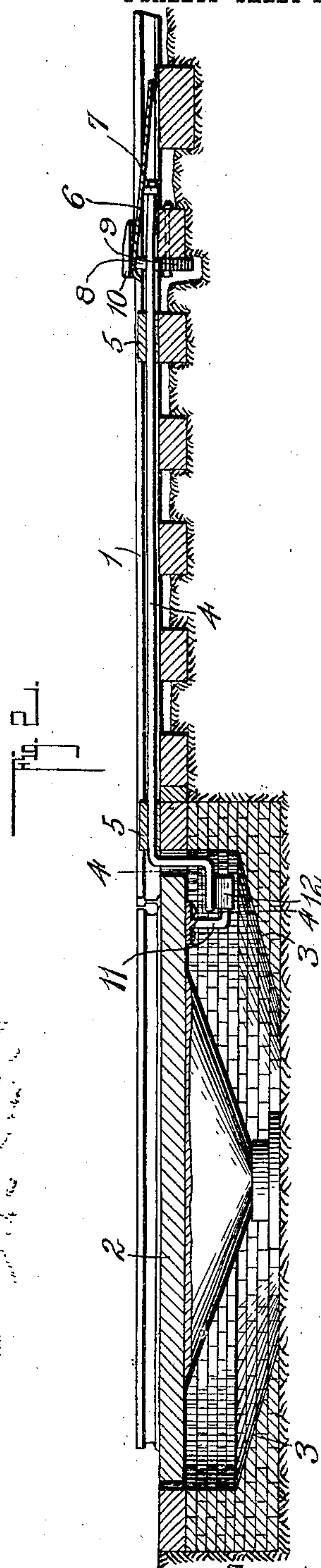
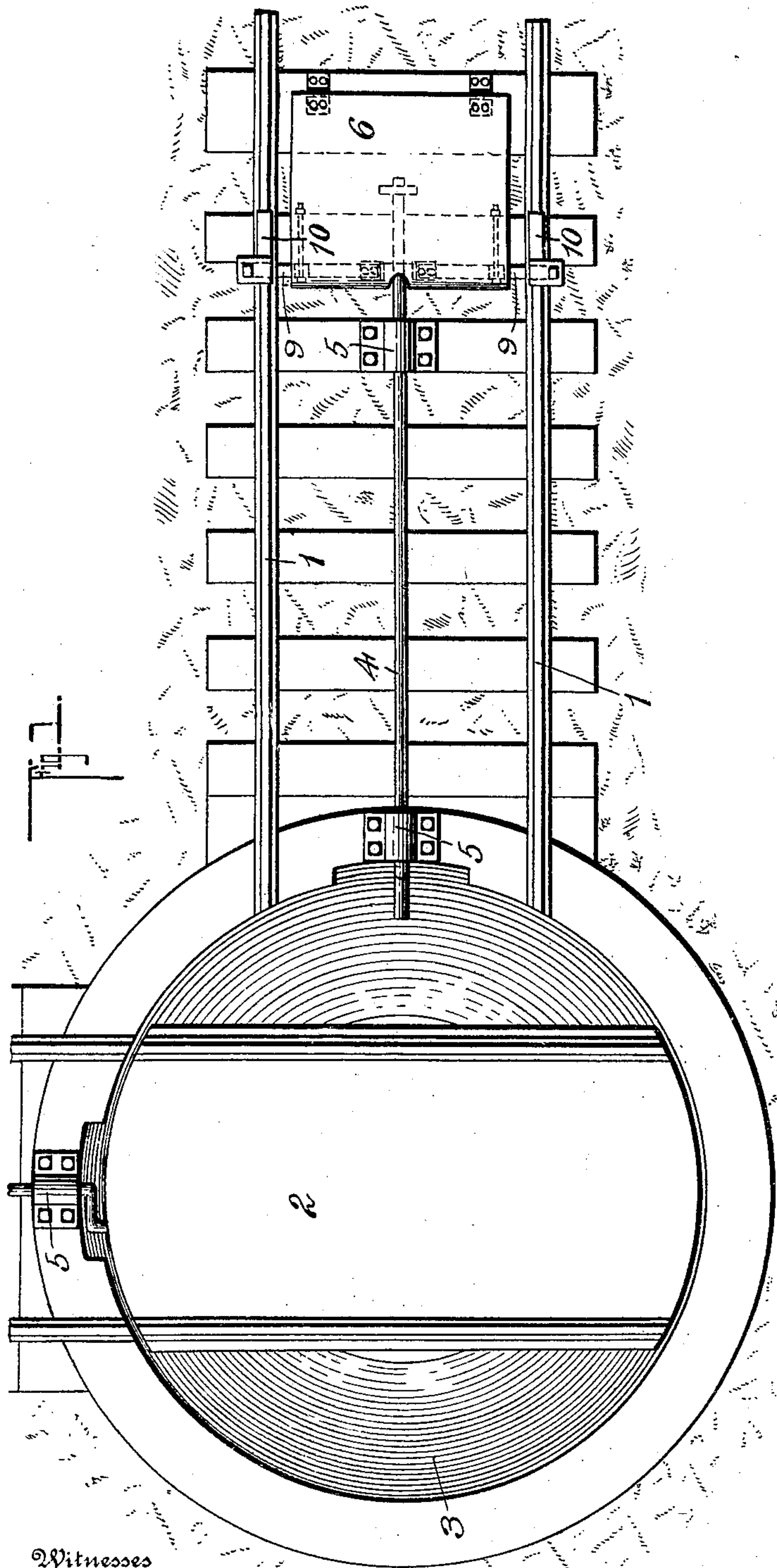


A. F. ELKINS.
SAFETY DEVICE FOR ROUND TABLES.
APPLICATION FILED FEB. 6, 1909.

938,561.

Patented Nov. 2, 1909.

2 SHEETS—SHEET 1.



Witnesses

Philip H. Burch
E. B. McCall

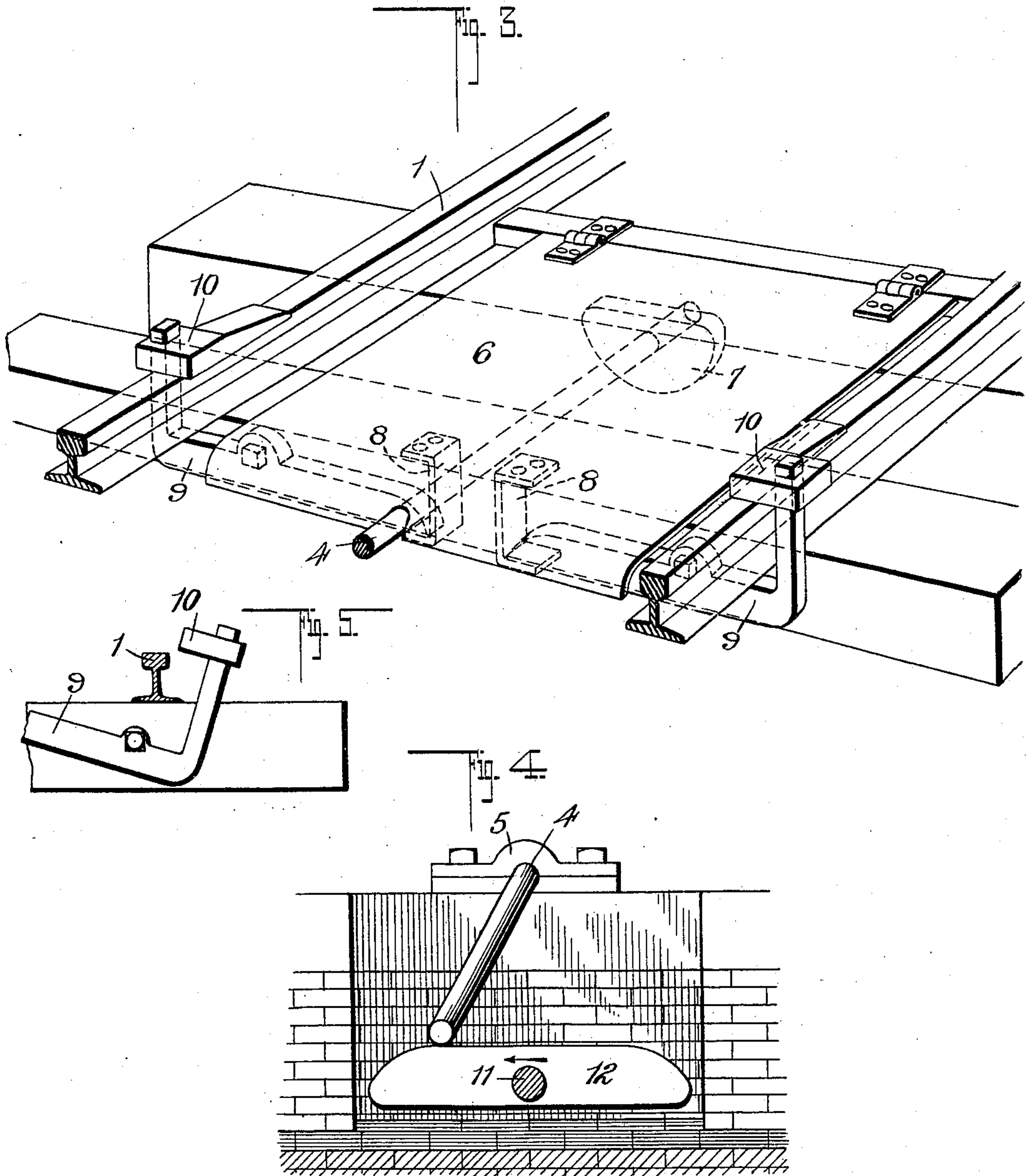
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Inventor
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Witnesses

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UNITED STATES PATENT OFFICE.

ARTHUR F. ELKINS, OF IRONTON, OHIO, ASSIGNOR OF TWO-THIRDS TO FRANK L. McCAULEY, OF IRONTON, OHIO.

SAFETY DEVICE FOR ROUND TABLES.

938,561.

Specification of Letters Patent.

Patented Nov. 2, 1909.

Application filed February 6, 1909. Serial No. 476,465.

To all whom it may concern:

Be it known that I, ARTHUR F. ELKINS, a citizen of the United States, residing at Ironton, in the county of Lawrence and State of Ohio, have invented a new and useful Improvement in Safety Devices for Round Tables, of which the following is a specification.

This invention relates to a device designed to prevent the accidental running of an engine into the pit in a turntable when the tracks carried by said table are out of alinement with the track rails upon which the engine travels.

A further object of the invention is a device of this kind which does not depend for its operation upon the use of springs.

The invention consists of the novel features of construction hereinafter fully described, pointed out in the claims and shown in the accompanying drawings, in which,

Figure 1 is a plan view. Fig. 2 is a longitudinal section. Fig. 3 is a detail perspective view of the track obstructing means and parts immediately connected thereto. Fig. 4 is a section on the line 4-4 of Fig. 2. Fig. 5 is a detail sectional view.

In these drawings 1 represents a track leading to a turntable 2 which is mounted within a pit 3. A rotatable rod 4 is arranged between the track rails and is mounted in suitable bearings 5. The inner end of the rod 4 is angled and extends into the pit 3 and beneath the turntable 2, when said table is turned so as to bring its track rails in alinement with the rails of the track 1. The outer end of the rod 4 is covered by a hinged sheet metal plate 6, the inner edge of said plate, that is the edge nearest the turntable, being curved downwardly and cut out to permit free passage of the rod beneath the plate. Eccentrically mounted upon said covered end of the rod is a segment 7 which, when the rod is rotated acts as a cam, engaging and lifting the plate 6 as shown in Fig. 2. The plate carries adjacent its curved edge depending angled brackets 8 which form fingers for the purpose of engaging the free ends of angled levers 9, the said levers being pivotally connected to the side of a cross tie between the track rails and the rod 4. The outer end portions of these levers are turned upwardly and carry shoes 10. It will be obvious that rotation of the rod 4 and of the segment 7 carried thereby

will lift the free, curved end portion of the plate, thereby lifting the fingers 8 and elevating the inner ends of the levers 9. The rocking of these levers upon their pivotal points will swing the upturned end portions downwardly and outwardly thus carrying the shoes 10 to one side of the track, leaving free passage along the track rails for the engine wheels. The levers 9 having the greater portion of their weight at their inner ends will normally drop back into the position shown in Fig. 3 thus normally holding the said shoes upon the track rails, this movement being aided by the weight of the plate 6 and by the weight of the angled inner end portion of the rod 4.

In order to rotate the rod and lift the plate 6 at the proper time I provide upon the under side of the turntable 2 an arm 11 which carries a cam block 12 which engages and swings the angled inner end portion of the rod 4, thus rotating said rod upon its bearings. It will therefore be obvious that as the turntable swings into position to receive an engine the cam 12 will engage and rock the rod 4 thus lifting the plate 6, actuating the levers 9, and throwing the shoes laterally away from the track rails. When the engine has run upon the turntable and it has been rotated so as to cause the cam block 12 to clear the angled portion of the rod 4 the parts will drop by gravity to their normal position, thus offering the shoes as an obstruction to the running of a second engine or car upon the table until it is again brought into alinement with the track rails. It will be understood of course that where a number of tracks branch from a pit all of them may be supplied with a device of this kind and also if desired cam blocks 12 may be provided at each end of the table.

What I claim is:—

1. The combination with a turn-table, a cam block carried thereby, a rotatable rod having an angled portion in position to be engaged by said block, said rod being arranged longitudinally upon a track section, an obstruction normally resting upon the track rails, and means actuated by rotation of the rod for removing said obstruction from the rails.

2. In a device of the kind described pivoted levers, shoes carried by said levers and normally resting upon track rails, a hinged plate, means carried by the free end portion

of the plate for engaging the levers and throwing the shoes from the track rails, a rotatable rod, a segment carried by the rod and engaging the under face of said hinged plate, a turntable, and means carried by said turntable for rotating said rod upon movement of the turntable into alinement with the track rails.

3. A device of the kind described comprising a turntable, a track section leading thereto, a rod longitudinally journaled between the track rails, the inner end of the rod being angled and projecting under the turntable when the latter is in alinement with the track section, a cam block carried by the turntable, and engaging the angled portion of the rod, a segment fixed to the outer end portion of the rod, a hinged plate covering said segment and in engagement with it, pivoted levers, said levers having upwardly turned end portions, the pivoted levers running under the track rails, shoes carried by the upwardly turned end portions

of said levers and normally resting upon the track rails, and means carried by the hinged plate for engaging the inner ends of said levers and throwing the shoes away from the track, as and for the purpose set forth.

4. In a device of the kind described levers pivoted intermediate their ends, the levers passing transversely beneath track rails and having their outer end portions bent upwardly, shoes carried by said end portions and rest normally upon the track rails, a hinged plate, said plate having a curved free marginal portion covering and inclosing the inner and pivoted portions of the levers, depending fingers carried by said plate and engaging the inner ends of the levers, and means operable by rotation of a turntable for lifting said hinged plate, as and for the purpose set forth.

ARTHUR F. ELKINS.

Witnesses:

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