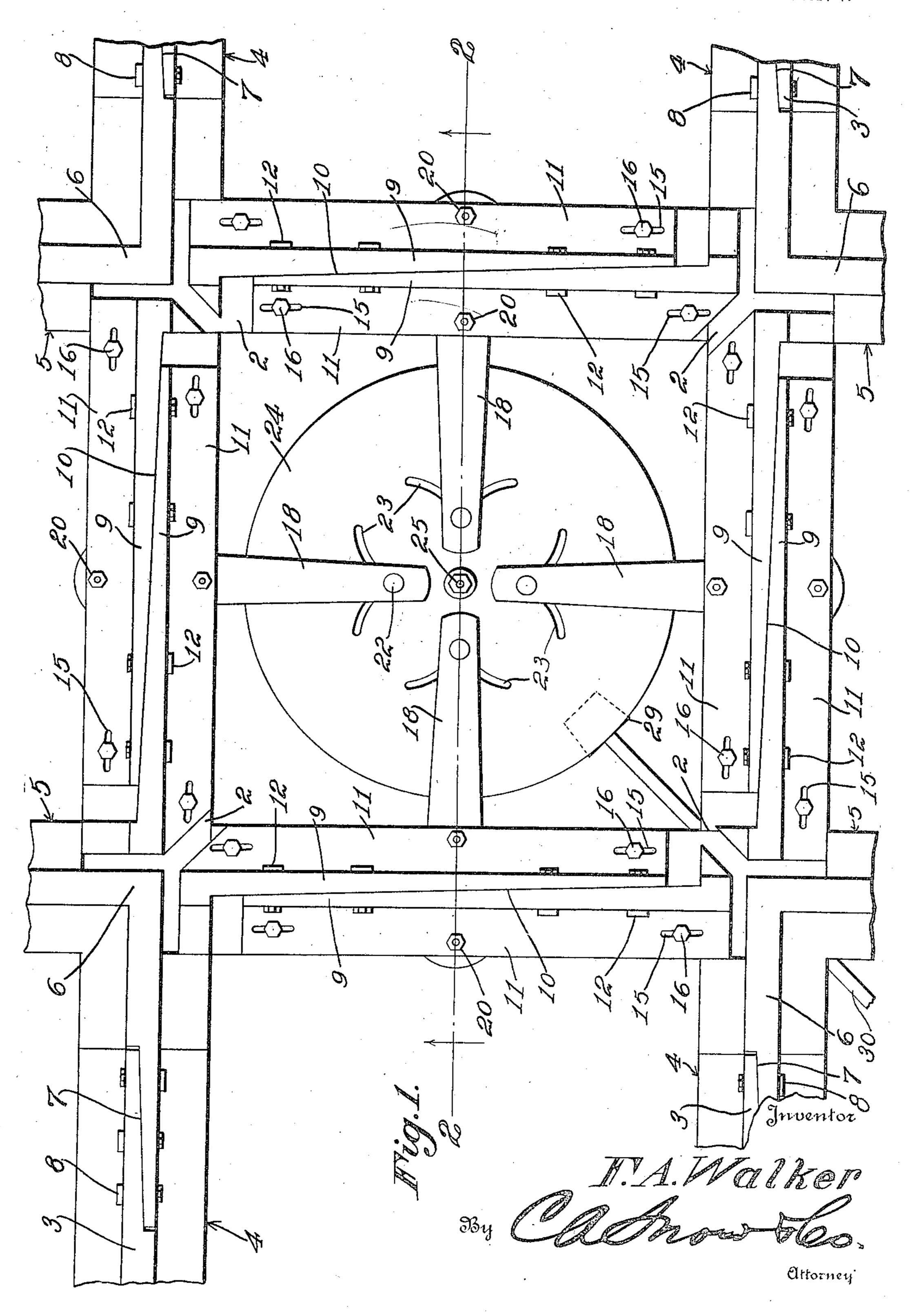
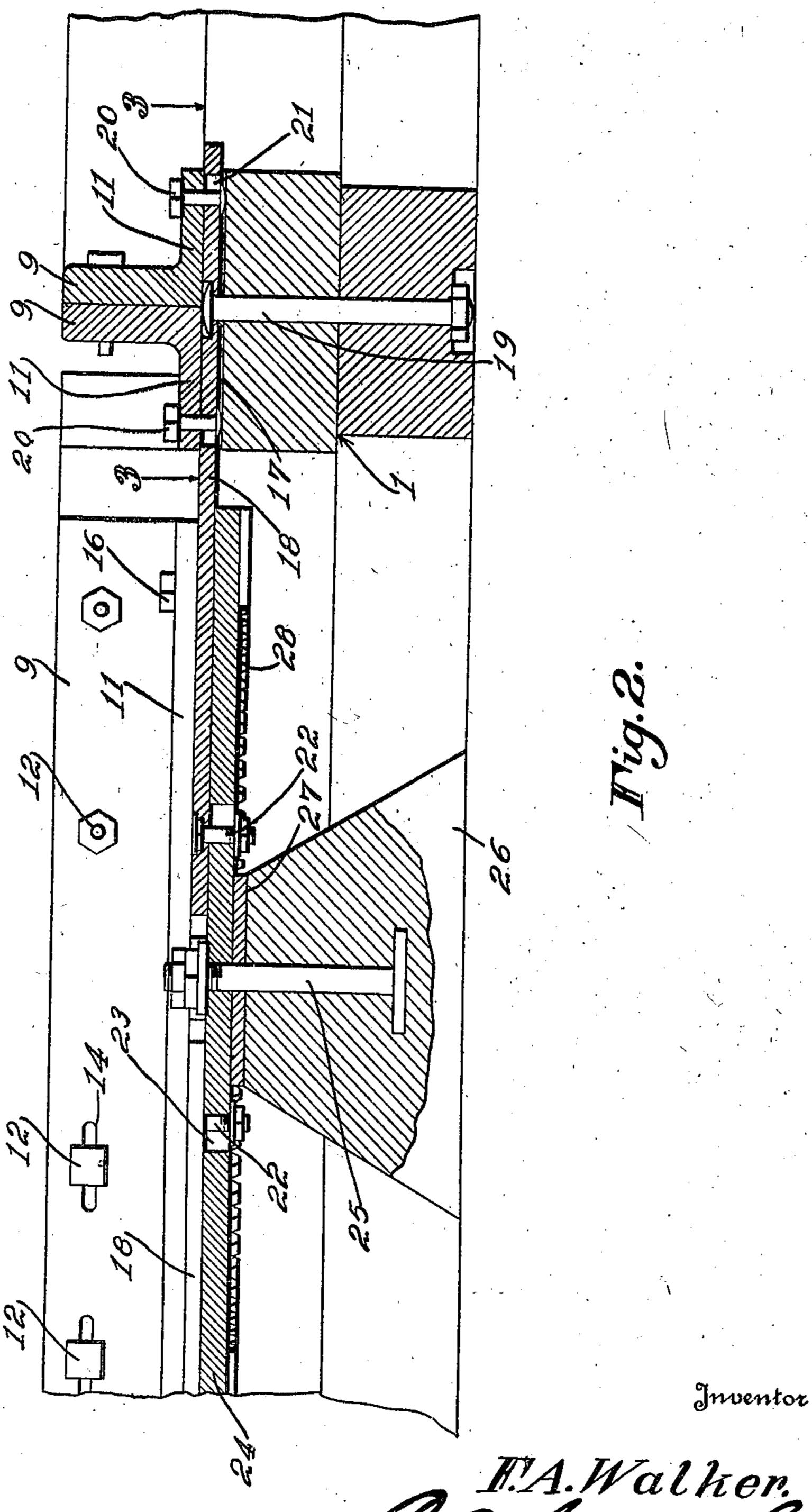
F. A. WALKER.
RAILROAD CROSSING.
FILED MAY 17, 1922.

3 SHEETS-SHEET 1.

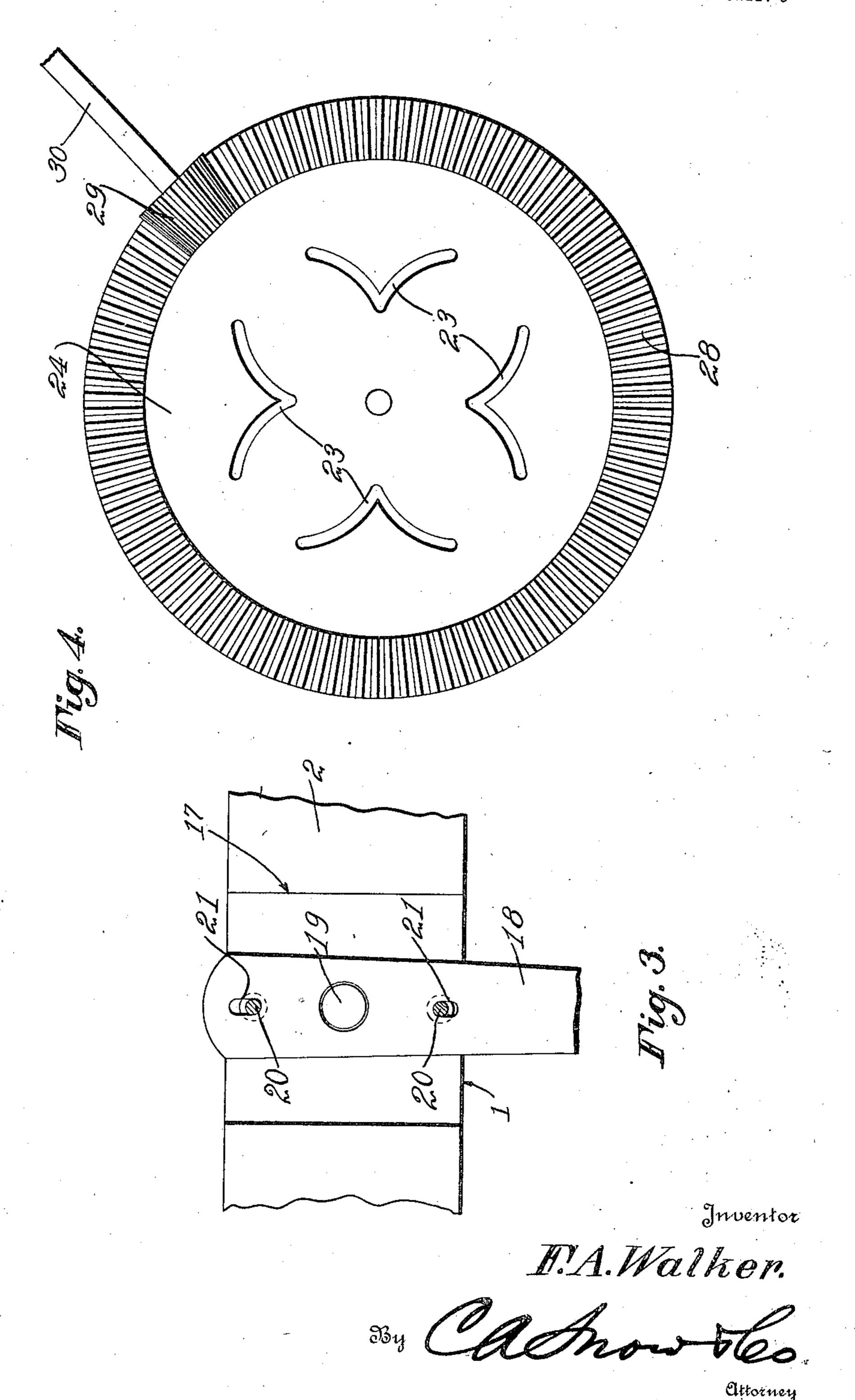


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3 SHEETS-SHEET 3



STATES PATENT OFFICE.

FRANK A. WALKER, OF NORMAL, ILLINOIS.

RAILROAD CROSSING.

Application filed May 17, 1922. Serial No. 561,711.

To all whom it may concern:

Be it known that I. Frank A. Walker, a citizen of the United States, residing at Nor-5 Illinois, have invented a new and useful posed in pairs, the pairs of auxiliary rails is a specification.

This invention aims to provide novel means under the control of an operator 10 whereby a continuous track may be formed, at the place where two tracks cross, thereby avoiding the pounding and consequent deof two railway tracks.

15 It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention apertains.

With the above and other objects in view, 20 which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that, with-25 in the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in top plan, a device constructed in accordance with the invention; Figure 2 is a section taken on the line 2—2 of Figure 1; Figure 3 is a fragmental plan showing one of the levers and attendant 35 parts; Figure 4 is a bottom plan view of the rotatable actuating member.

The device forming the subject matter of this application contemplates the use of a foundation, denoted generally by the nu-40 meral 1, and, ordinarily, made up of ties and stringers. The foundation 1 need not be described in detail, because it will be changed to suit local conditions, and because the make-up of the foundation is a matter 45 of interest to a railroad carpenter, rather meshing into a pinion 29 mounted on a shaft than to an inventor. Supporting plates 2, ordinarily made of metal, are superposed on the foundation 1. The plates 2 support the main rails 3 of a track 4, and support, also 50 the main rails of a track 5, the track 5 intersecting the track 4. Angle rails 6 are common to the tracks 4 and 5 and are supported on the plates 2. The ends of the angle rails 6 are halved as shown at 7 into 55 the ends of the main rail and are connected thereto by securing elements 8, the construc-

tion being such that expansion and contraction may be taken care of, a practically continuous joint being afforded, nevertheless.

mal, in the county of McLean and State of The device includes auxiliary rails 9 dis- 60 Railroad Crossing, of which the following 9 being alined with the main rails of the tracks 4 and 5. The auxiliary rails 9 are beveled and overlapped as shown at 10, each auxiliary rail having a base flange 11. Each 65 auxiliary rail 9 carries connections 12 movable in slots 14 formed in the adjacent auxiliary rail, as shown in Figure 2. Elongated terioration experienced at the intersection slots 15 are fashioned in the flanges 11 of the auxiliary rails 9. Securing devices 16 pass 70 through the slots 15 of the flanges 11 and connect the auxiliary rails 9 to the plates 2, as shown in Figure 2, for longitudinal movement, as indicated in Figure 1.

> As depicted in Figure 3, and as denoted by 75 the numeral 17, the plates 2 are cut away to receive levers 18, fulcrumed intermediate their ends, as at 19 on the foundation 1. The levers 18 carry pivot elements 20, located on opposite sides of the fulcra 19 of 80 the levers, the pivot elements being mounted in the flanges 11 of the auxiliary rails 9. The plates 2 are provided with openings 21, receiving the pivot elements 20 and permitting movement of the pivot elements with 85 respect to the plates 2, when the levers 18 are swung on their fulcra 19. The levers 18 are supplied adjacent to their inner ends with projections 22, which may be in the form of bolts.

The projections 22 on the inner ends of the levers 18 are received in approximately V-shaped cam slots 23 in a rotatable member 24 journaled on a spindle 25 carried by a pedestal 26 a spacer 27 being interposed 95 between the pedestal 26 and the rotatable member 24, as depicted in Figure 2 of the drawings. At its lower surface and adjacent to its periphery, the rotatable actuating member 24 is supplied with a gear ring 28 100 30 journaled for rotation in the foundation 1 or supported in any other suitable way.

In practical operation, when rotation is imparted to the shaft 30, the pinion 21, co- 105 operating with the gear ring 28, will rotate the member 24. When the member 24 is rotated, the levers 18 will be swung on their fulcra 19 in view of the fact that the projections 22 at the inner ends of the levers are 110 received in the cam slots 23. When the levers 18 are swung, motion will be trans-

mitted by the pivot elements 20 to the aux- tracks including main rails; pairs of auxililiary rails 9, the auxiliary rails moving end- iary rails cooperating with the main rails wise. When the rails 9 move endwise, they and mounted for relative longitudinal movecooperate with the angle rails 6, there being ment; levers and fulcra therefor; means for 35 5 no spaces left between the ends of the auxil- connecting the outer ends of the levers with iary rails and the angle rails. In this way, the auxiliary rails; a member supported for the operator may make the track 4 continu- rotation and having cams engaged with the ous, at the crossing, or make the track 5 con- inner ends of the levers; and means for rotinuous at the crossing, to accommodate the tating said member. 10 traffic. It is obvious that, due to the con- 3. In a railway crossing, intersecting struction above outlined, there will be no main tracks including main rails; pairs of wide or open joints at the crossing, and the auxiliary rails cooperating with the main 15 edge that one of the most complicated prob-means for connecting the outer ends of the lems met with in the maintenance of a right-levers with the auxiliary rails; a member of-way is connected with a proper keeping up of the crossings.

20 is claimed is:—

iary rails cooperating with the main rails the rotatable member. and mounted for relative longitudinal move- In testimony that I claim the foregoing 55 25 ment; levers and fulcra therefor, the outer ends of the levers being connected to the ture in the presence of two witnesses. auxiliary rails; a member journaled for rotation; means for rotating said member; and means for connecting the inner ends of the 30 levers operatively with said member.

2. In a railway crossing, intersecting

crossing will not be pounded down out of rails and mounted for relative longitudinal grade, it being a matter of common knowl- movement; levers and fulcra therefor: 45 supported for rotation and provided with a gear, the rotatable member having cams, the Having thus described the invention, what inner ends of the levers having means for 50 cooperating with the cams; a shaft sup-1. In a railway crossing, intersecting ported for rotation; and a pinion on the tracks including main rails; pairs of auxil- shaft, the pinion meshing with the gear on

as my own, I have hereto affixed my signa-

FRANK A. WALKER.

Witnesses:

Alma A. Luther, J. D. Cunningham.