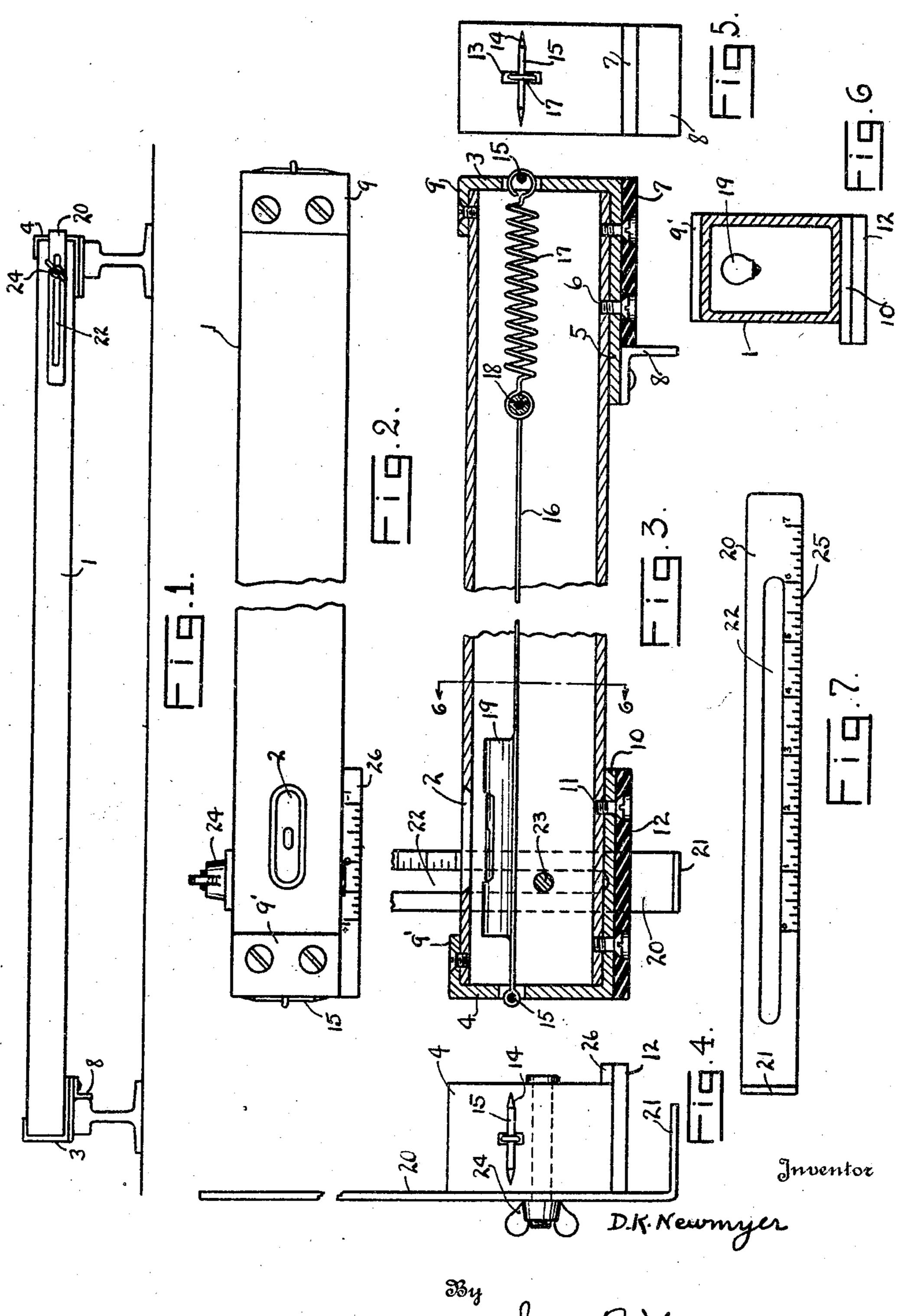
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TRACK LEVEL

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UNITED STATES PATENT OFFICE.

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show the level of the rails.

It is an object of my invention to provide ing material. 5 a track level of metallic construction which is insulated so as not to electrically connect the rails and wherein the spirit level is supported in such manner that it may not easily get out of adjustment.

It is also an object to provide a supporting staff for one end of the level to indicate the difference in level between the two rails. It is also desired that the means for noting the space between the rails be placed in such po-15 sition as to be readily readable by the user. Further objects and advantages arising from the particular construction and arrangement of the parts will be brought out with more particularity in the specification which fol-20 lows.

Referring to the drawing herewith, Fig. 1 is a side elevation of a level embodying my construction shown in position upon the rails. Fig. 2 is a top plan view thereof. Fig. 3 is a 25 central vertical section of the device. Fig. 4 is an end elevation thereof. Fig. 5 is an elevation of the end opposite to that shown in Fig. 4. Fig. 6 is a vertical section taken on the plane 6-6 of Fig. 3, and Fig. 7 is a side ele-30 vation of the measuring staff employed in connection with my invention. Like numerals of reference indicate like parts in all the views.

In constructing the body of my invention, 35 I contemplate using a tubular metallic body 1, which is preferably made rectangular in cross-section. The interior of the body is thus left unobstructed and an opening 2 is formed on the upper side adjacent one end thereof 40 to provide a view of the spirit level which is mounted within the tubular body.

The two ends of the tubular body are closed by end plates 3 and 4. These plates are formed to fit about the ends of the tube, the plate 3 having an upper portion 9 riveted or screwed to the body of the device and a lower extension 5 lying along the lower side of the body 1 and connected thereto by screws or rivets 6. Secured on the lower portion 5 of 50 the end plate is a strip 7 of insulating matepiece of rigid material 8, shaped like an angle to hold it in any vertically adjusted position iron, is connected to the plate 5 and has a The staff along the main puttion thereof is

My invention relates to track levels for use downwardly extending arm thereon adapted in railway construction and is adapted to to rest against the inner side of the rail. This member is also made of some type of insulat-

> The plate 4 at the opposite end of the body has an upper member 9', similar to the opposite plate, resting upon the upper face of the body member. The plate closes the end of the tube and extends along the lower side 65 at 10 for connection therewith, and is attached to the body by means of screws 11. A plate of insulating material 12 on the lower side of the member 10 is adapted to rest upon the rail 70 and thus insulate the connection.

> The two end plates are formed with vertical slots 13 therein at a point spaced somewhat above the middle thereof, and transversely of these slots the plate is recessed at 14 to receive a pin 15. A wire or rod 16 of resilient material is extended longitudinally of the interior of the level, the ends of said wire or rod being bent to connect about the pins 15. The said wire 16 has on the end 80 adjacent the plate 3 a tension spring 17, which is connected to the wire 16 through the means of a button 18 of insulating material, the end of the spring being wound about the button and the wire 16 being connected through a central opening in said button. This spring tends to hold the wire 16 in a taut position on a line directly connecting the pins 15 which are uniformly spaced from the lower side of the body.

The spirit level 19 is secured to the wire 16 on the upper side of said wire and is preferably soldered or welded rigidly upon the wire. The level is open on the upper side so as to be viewed through an opening 2 by the operator.

In ascertaining the difference in level between the adjacent rails, an adjustable staff 20 is arranged at the end of the body opposite the stop member 8, and it is contemplated 100 that the stop member 8 will be placed against the higher of the two rails and the staff 20 will be adjusted upon the lower rail until the body of the level is in a true level position. The said staff 20 is formed of a strip 100 or plate of metal, the lower end of which is rial, adapted to rest upon the rail and thus bent at right angles thereto to form a foot 21. prevent the passage of an electric current The staff is slotted centrally at 22 to receive from one rail to the other where the tracks a cross bolt 23 having a thumb nut 24 thereon, have been wired for electric block signals. A which may be tightened against the staff in

graduated as shown at 25 in Fig. 7, so that and adjusted is an important feature of my 35 the height of the level above the foot 21 of invention. the staff may be indicated. This scale-will. Having thus described my invention, what be so graduated that the difference in height. I claim as new and desire to protect by Let-5 between the two rails may be read directly ters Patents is: from the scale. When in use, the staff will be 1. In a track level a rigid body member, a 40 to level up the rails, the staff will not be of vertical side thereof, said staff comprising an 10 use and will be pivoted on the adjusting bolt: upright plate and a foot member extending 15 out of way until its use is desired.

rails the desired distance apart, I have ner described. formed a scale, shown at 26, formed at one 2. In a track level, a rigid body member, a

variations at each side thereof.

30 described. The device is particularly con-ber. venient and durable and will withstand. In testimony whereof I hereunto affix my 65 for long periods of time. The particular 1926. manner in which the staff 20 is constructed

in a position indicated in Figs. 3 and 4, but stop member at one end on the lower side when the level is used for ordinary purposes thereof, a staff at the opposite end on the 23 so that the foot 21 will be brought around beneath and transversely of the body mem- 45 against the end plate 4 and the staff will then ber to engage the rail, said plate being adbe moved into close contact with the side and justable vertically and also in various anguend, as indicated in Fig. 1, where it will be lar positions on said body, whereby said staff may lie parallel with said member, said foot To furnish a means whereby the distance engaging the end of said member, and a scale 50 between the rails may be adjusted to space the formed on one side of said staff in the man-

20 side of the plate extension 10, as indicated in staff adjacent one end thereof, said staff com-Figs. 2 and 6. The scale formed thereon has prising a strip of rigid material slotted longi- 58 a central zero point indicating the proper tudinally to receive a bolt, said strip being space between the rails, and plus and minus bent at right angles beneath said member to form a foot-thereon to contact with the rail, The particular advantages of my invention; and a bolt securing said staff adjustably on reside in the rigid construction furnished by one side of said rigid body member, whereby: 60 the tubular metallic body and in the means said staff may be turned into a position paralfor adjusting and ascertaining the levels lel with said level in the manner described, through the use of the staff 20, in the manner said foot then engaging the end of said mem-

rough usuage to which these devices are put signature this 12th day of February, A. D.

DANK: NEWMYER: