V. S. VEAZEY.

PORTABLE TRACK MEASURER.

APPLICATION FILED AUG. 20, 1914.

1,143,467. **Patented June 15, 1915.**

Fig. 2.

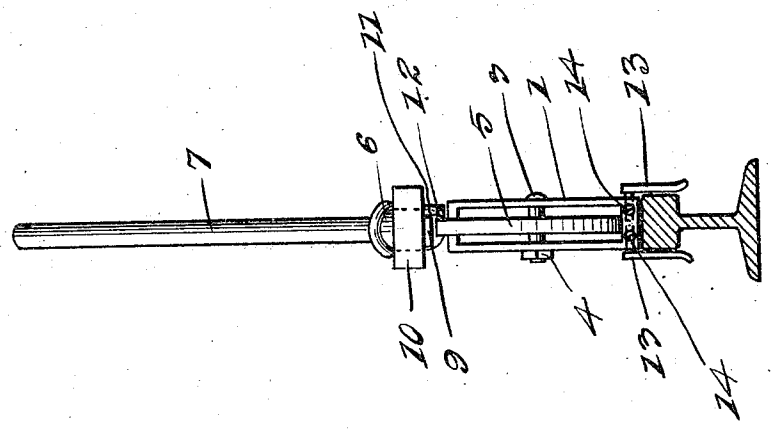
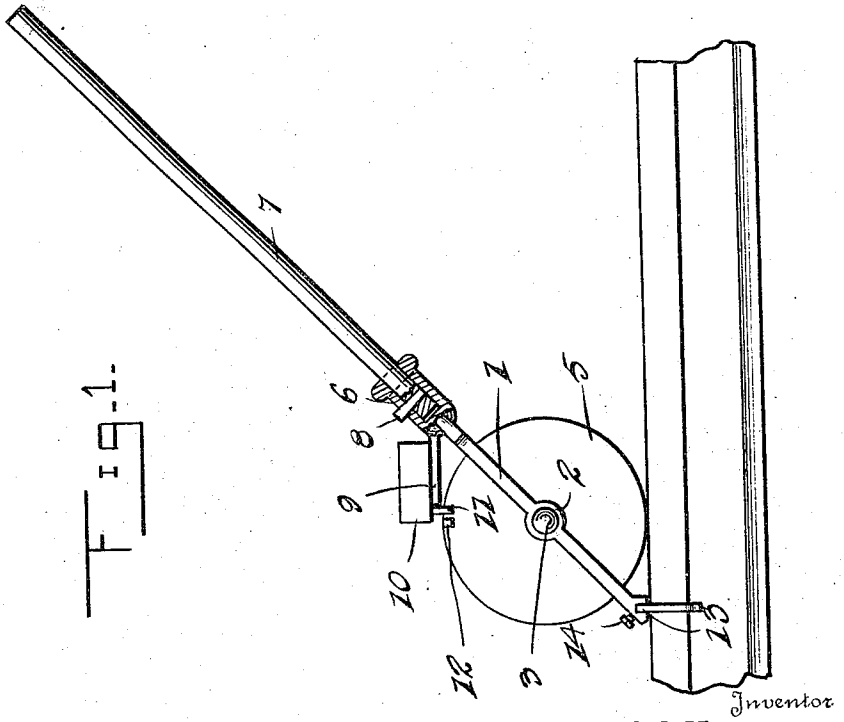


Fig. 1.



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UNITED STATES PATENT OFFICE.

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PORTABLE TRACK-MEASURER.

1,143,467. Specification of Letters Patent. Patented June 15, 1915.

Application filed August 20, 1914. Serial No. 857,747.

To all whom it may concern:

Be it known that I, VICTOR S. VEAZEY, a citizen of the United States, residing at Mount Hope, in the county of Fayette and State of West Virginia, have invented certain new and useful Improvements in Portable Track-Measurers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improved measuring devices and resides in the provision of a simple and inexpensive measurer that is particularly designed for measuring distances on rails in mines and other tracks.

An important object of my invention is to provide a track measuring instrument of the character described that is provided with novel means whereby it is retained in operative position upon a rail and may be operated upon rails of different sizes.

Another object is to improve measuring devices of the character described so as to render them more simple as to construction, easy to operate and inexpensive to manufacture.

The above and additional objects are accomplished by such means as are illustrated in the accompanying drawings, described in the following specification and then more particularly pointed out as claimed.

With reference to the drawings, wherein I have illustrated the preferred embodiment of my invention as it is reduced to practice, and throughout the several views of which similar reference numerals designate corresponding parts.

Figure 1 is a side elevation showing my improved track measurer as it would appear when in use and partly broken away and shown in section, and Fig. 2 is a front elevation showing the device in use and upon a rail which is shown in section.

Referring to the drawings by characters of reference, the numeral 1 designates as an entirety, a rectangular metallic frame formed of some light metal and provided at opposed points and intermediate the ends of the side portions thereof with an enlarged bearing portion 2 in which is mounted an axle pin 3 that is held in position by a nut 4. Mounted upon this pin or axle 3 is a measuring wheel 5 which may be of any desired circumferential measurement but is preferably one foot in circumference.

Carried upon the upper end of the frame 1 and preferably formed integral therewith, is an enlarged socket 6 in which is mounted a suitable handle 7 that is held in position by means of a pin 8 which is inserted through the socket 6 and that portion of the handle which is extended into the socket. Carried by the socket 6 and preferably formed integral therewith adjacent to the lower end thereof is a supporting plate 9 which plate extends angularly and forwardly from the socket and is designed to be disposed in a horizontal position when the device is in use. Mounted upon this supporting plate 9 is a counter 10 of the well known Veeder type. The counter 10 is provided with a depending operating trip 11 which is so disposed as to be engaged by a projection 12 carried by the wheel 5, at every revolution of said wheel, resulting in the registering of the counter 10.

Adjustably mounted in the lower end of the frame 1 are L-shaped guide arms 13 which have certain arm portions disposed in openings in the opposed sides of the lower end of the frame 1, and their other arm portions extending downwardly to engage upon sides of the rail.

Set screws 14 are mounted in the transverse end portion at the lower end of the frame 1 and are arranged to engage the portions of the L-shaped guides 13 that are adjustable within openings in said frame so as to hold the guides in adjusted position.

In operation the device is placed upon a rail and with the guides 13 engaging upon opposite sides of the head thereof and pushed, causing the wheel 5 to rotate and once upon every revolution to engage the trip 11 on the counter 10. It will be readily seen that a person may measure track distances in a reliable and expeditious manner with my improved measuring device and that the handle 7 may be removed so that the wheel 5 and coöperating parts may be carried within the pocket of the operator. The adjustable guides 13 adapt the device for use in connection with rails of various sizes. The frame 1 with the parts carried thereby may be cast or stamped and in either instance cheaply and easily made.

In practice, I have found that the form of my invention, illustrated in the drawings and referred to in the above description, as the preferred embodiment, is the most efficient and practical; yet realizing that the

conditions concurrent with the adoption of my device will necessarily vary, I desire to emphasize the fact that various minor changes in details of construction, proportion and arrangement of parts may be resorted to, when required, without sacrificing any of the advantages of my invention, as set forth.

What is claimed is:—

1. A track measurer consisting of a frame, a wheel rotatably journaled within said frame and to be moved along one of the rails of the track, a handle carried by the frame, said frame extending forwardly beyond the wheel, a distance registering instrument carried by the frame, and operatively associated with the wheel and laterally adjustable guide means carried by the frame to slidably engage upon opposite sides of the rail.

2. A track measurer comprising a frame, a wheel rotatably journaled in the frame, a distance registering instrument carried by the frame and operatively associated with the wheel, L-shaped guide members adjustably secured to the lower end of the frame and to engage upon opposite sides of the rail of a track, and means to hold the guide members in adjusted position.

3. A track measurer comprising a rectangular frame, a measuring wheel rotatably journaled in the side bars of the frame, a socket carried at the upper end of the frame, a handle mounted within the socket, a supporting plate carried by the lower end of the socket and extending forwardly and to be disposed in a horizontal plane normally, a distance registering instrument mounted upon said supporting plate and operatively associated with the wheel, the lower end portion of said frame having openings in the opposite side thereof, L-shaped guide members having the horizontal arms thereof slidably mounted in said openings and the vertical arms thereof disposed for engagement upon opposite sides of a rail and set screws carried by said lower end portion of the frame and to engage the horizontal portions of the L-shaped guide members to hold said guide members in adjusted position.

In testimony whereof I affix my signature in presence of two witnesses.

VICTOR S. VEAZEY.

Witnesses:
HAROLD SPOOR,
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