W. H. RINEBOLD.

INDICATOR.

APPLICATION FILED JAN. 5, 1916.

1,188,833. Patented June 27, 1916.

Fig. 1

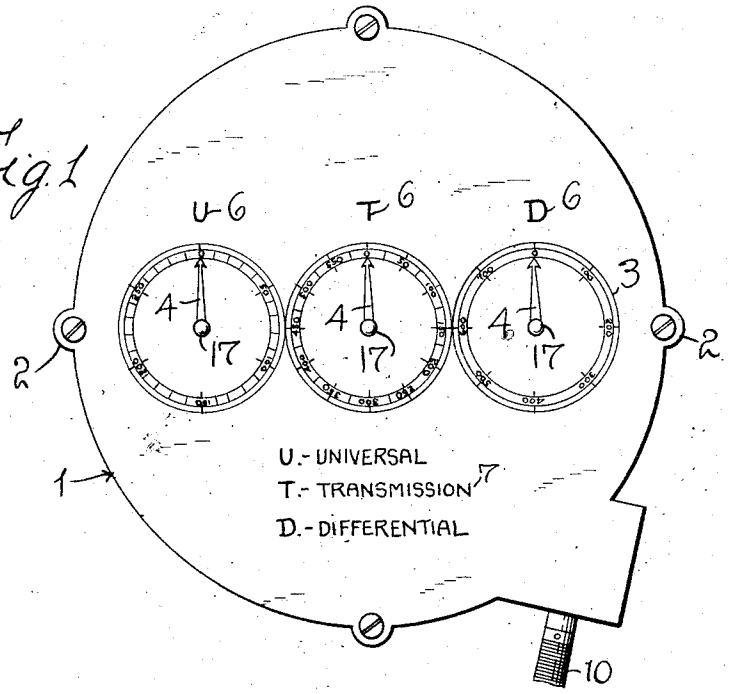
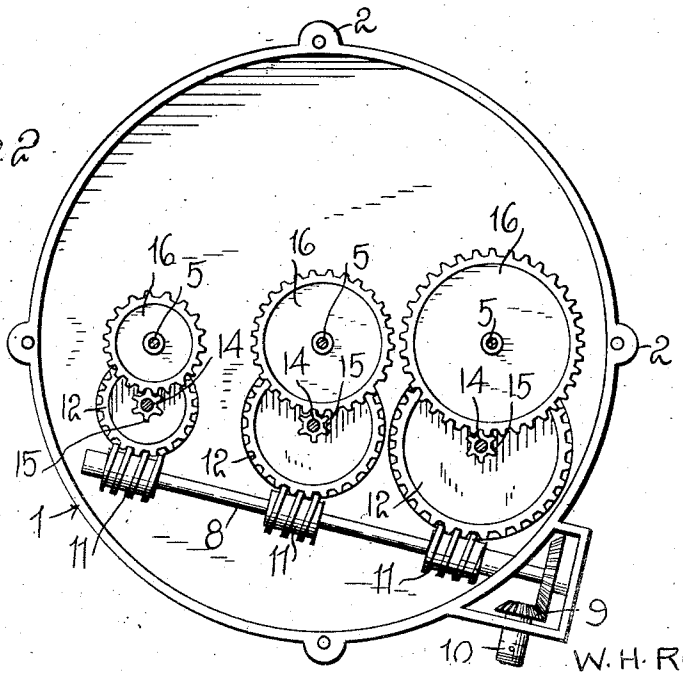


Fig. 2



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INDICATOR.

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To all whom it may concern:

Be it known that I, WILBERT H. RINEBOLD, a citizen of the United States, residing at Fostoria, in the county of Seneca and State of Ohio, have invented certain new and useful Improvements in Indicators, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in indicators, and it is an object of the invention to provide a device of this general character having novel and improved means whereby indication is given when different movable parts, such as comprised in an automobile structure, need lubricating.

Furthermore, it is an object of the invention to provide a novel and improved device of this general character which is adapted for use in connection with an automobile and which is operated from a supporting wheel of the vehicle and which is so positioned as to be readily discerned by the operator.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved indicator whereby certain important advantages are attained and the device is rendered simpler, less expensive and otherwise more convenient and advantageous for use, all as will be hereinafter more fully set forth.

The novel features of the invention will be carefully defined in the appended claim.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein—

Figure 1 is a view in elevation illustrating an indicator constructed in accordance with an embodiment of my invention; and Fig. 2 is a view of my improved indicator as herein embodied, with the face plate removed and with parts in section.

As disclosed in the accompanying drawings, 1 denotes a casing of predetermined configuration and dimensions and provided with the perforate ears 2 whereby the same may be readily and conveniently secured upon the dash of an automobile or the like and in a position readily observed by the operator. The outer face of the casing is provided with a plurality of circular series 3 of mileage indications and with each of said series coacts the pointer or index 4 fixed to the shaft 5 extending inwardly of the casing.

As herein embodied, I employ three series of indications adapted to be employed in connection with the universal, the transmission and the differential and in order that each of the series may be properly identified, I have produced upon the outer face of the casing above the series 3 the distinguishing characters 6 and in order that the characters may be readily understood, I find it of advantage to produce on the outer face of the casing 1 and preferable below the series 3 the explanatory matter 7.

Extending within the casing 1 is the shaft 8 having its outer extremity operatively engaged, as at 9, with the flexible shaft 10 or the like adapted to be rotated from one of the supporting wheels of a vehicle in a conventional manner as is generally employed in connection with speedometers and the portions of the shaft 8 within the casing 1 is provided with the worms 11 coacting with the worm gears fixed to the shafts 5 and it is to be observed that the worm gears 12 are of differing diameters as it is desired to have the different shafts 5 to rotate at such a speed as to cause the indicators or indices 4 to make a complete revolution after the automobile has traveled a predetermined number of miles. As herein embodied, the index or pointer 4 coacting with the "universal" series 3 is adapted to make a complete revolution when the car has traveled three hundred (300) miles so that when the pointer 4 has returned to the "0" indication, the operator will know that the universal needs lubricating. The index or pointer 4 coacting with the "transmission" series 3 is adapted to make a complete revolution when the automobile has traveled six hundred (600) miles or just about the time when the transmission needs a new supply of lubricant. The index or pointer 4 coacting with the "differential" series 3 makes a complete revolution when the car has traveled eight hundred (800) miles or just when the differential needs a new supply of lubricant.

It will be understood that I do not desire to be limited to the exact mileage required to make the several pointers or indices to make a revolution, but the foregoing is based on the requirements of an automobile of the size in general use.

As disclosed particularly in Fig. 2 of the

accompanying drawings, it is to be observed that each of the worm gears 12 is idle and is rotatably mounted upon the shaft 14 and is provided with a pinion 15 in mesh with the gear 16 carried by the shaft 5 and in the present embodiment of my invention the shaft 5 extends beyond the face of the casing 1 so that when it is desired to reset the indicator or index 4 to "0" the shaft 5 may be pulled outwardly sufficiently as to disengage the gear 16 from the pinion 15 so that the indicator or index 4 may be readily reset to "0" whereupon the gear 16 is again caused to engage with the pinion 15 by forcing the shaft 5 inwardly.

From the foregoing description, it is thought to be obvious that an indicator constructed in accordance with my invention is of an extremely simple and comparatively inexpensive nature and is particularly well adapted for use by reason of the convenience and facility with which it may be assembled, and it will also be obvious that my invention is susceptible of some change and modification without material departure from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice.

I claim:

An indicator of the character described comprising a plurality of series of circular indications, an index coacting with each of the series, and means operable from a common source for imparting movement to the indices at differing peripheral speeds.

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

WILBERT H. RINEBOLD.

Witnesses:

PERCEY J. BIG LOW,

M. V. RINEBOLD.