

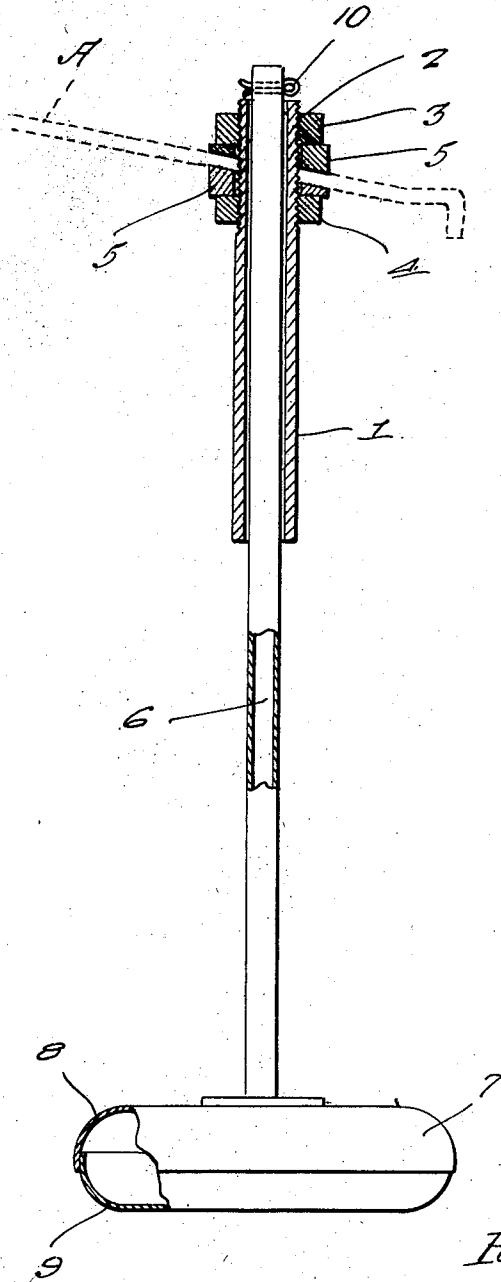
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WATER GAUGE FOR RADIATORS.

Filed April 14, 1924.



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WATER GAUGE FOR RADIATORS.

Application filed April 14, 1924. Serial No. 706,520.

To all whom it may concern:

Be it known that I, RONALD ROPTE, a citizen of the United States, residing at Humboldt, in the county of Humboldt and State of Iowa, have invented certain new and useful Improvements in a Water Gauge for Radiators, of which the following is a specification.

This invention relates to new and useful improvements in water gauges and has for its principal object to provide a device which is especially adapted for use in connection with the radiators of tractors or the like.

One of the important objects of the present invention is to provide a means whereby the operator of the tractor may readily ascertain the amount of water within the radiator without having to leave his seat on the tractor and to remove the closure of the radiator in order to inspect the water chamber thereof.

A still further object of the present invention is to provide a water gauge of the above mentioned character, wherein the same is of such a construction as not to interfere with the circulation of the water through the tubes of the radiator, means being further provided for supporting the gauge in the top of the radiator.

A further object is to provide a water gauge of the above mentioned character, which is simple in construction, inexpensive, strong and durable and furthermore adapted for the purposes for which it is designated.

Other objects and advantages of this invention will become apparent during the course of the following description.

In the accompanying drawing forming a part of this specification and in which like numerals designate like parts throughout the same:

The figure represents an elevational view partly in section of the water gauge showing the same supported in the top of the radiator.

In the drawing wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates an elongated sleeve, the upper portion of which is externally threaded as shown at 2. The sleeve 1 is adapted to extend through a suitable opening provided in the top of the radiator, designated by the letter A, of a tractor in such a manner

as to have the upper portion thereof extending above the top of the radiator while the major portion of the sleeve is disposed within the radiator. For the purpose of securing the sleeve in position in the opening provided in the top of the radiator, I provide the clamping nuts 3 and 4 respectively, the same being arranged on opposite sides of the top of the radiator and suitable washers such as are shown at 5 are disposed between the radiator top and the clamping nut in the manner clearly shown in the drawing.

Adapted for vertical slidable movement through the sleeve 1 is the tubular elongated stem 6, the same being formed of any suitable material such as brass or copper, although it is to be understood that any other material may be substituted therefor. The lower end of the stem 6 supports thereon the hollow copper float 7 which may be of any conventional construction such as is well known in the art. In the present instance I have shown the float as comprising a pair of interfitting sections 8 and 9 respectively. The upper end of the stem 6 extends above the upper threaded end of the sleeve 1 and is provided therein with a suitable transversely extending opening in which is supported the cotter pin 10.

The provision of the cotter pin 10 in the upper end of the stem 6 performs a two fold function. In one instance the cotter pin 10 provides a means whereby the operator of the tractor may readily see the position of the stem 6 so as to ascertain the position of the float in the radiator and the amount of water contained therein. A further function of the cotter pin 10 is to provide a means for limiting the downward movement of the stem and the float in the radiator, and as is shown in the drawing, the cotter pin 10 is adapted for engagement with the upper threaded end of the sleeve 1.

In use, when the radiator is filled with water, the float and stem therefor will be in its uppermost position causing the cotter pin 10 to extend upwardly and away from the upper end of the sleeve 1. The operator of the tractor may readily view the cotter pin and thus will be in a position to determine whether or not the radiator needs to be filled. This will save considerable time which heretofore was wasted by the operator of the tractor in having to leave his seat and remove the closure of the radiator in order to ascertain whether or not the

radiator needed additional water. As the water is consumed, the float 7 will descend causing the downward movement of the stem 6 and the cotter pin 10 carried by the upper end thereof. When the cotter pin 10 rests on the upper edge of the sleeve 1 a warning will be given to the operator of the tractor that the radiator needs refilling. It is to be understood that the stem 6 is of such length as to prevent the float 7 from coming in contact with the upper ends of the tubes of the radiator, thus preventing the possibility of the float from cutting off the circulation of the water through the tube. It is also to be understood that the cotter pin 10 is so supported in the upper end of the stem 6 that when the stem is in its lowermost position, there will be a minimum supply of water in the radiator.

It will thus be seen from the foregoing description, that a water gauge which is principally adapted for use in connection with Fordson tractors has been provided which is simple in construction, inexpensive, strong and durable and the parts so arranged as to be readily disassembled whenever necessary. The provision of a water gauge of the above mentioned character, will save the operator of a tractor considerable time and labor and will at all times provide a means whereby the amount of water in the radiator can be

determined without having to remove the closure cap for the radiator and inspect the water chamber thereof.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claim.

Having thus described my invention, what I claim is:—

A water gauge for radiators comprising a sleeve, the upper end thereof being threaded and extending through an opening provided in the top of the radiator, clamping nuts threaded on the upper end of said sleeve on opposite sides of the radiator top for securing the sleeve in position thereon, a stem slidable in said sleeve, a float on the lower end of said stem, a cotter pin extending transversely through the upper end of said stem for indicating the position of the float and the amount of water in said radiator, said cotter pin being further adapted for engagement with the upper end of said sleeve for limiting the downward movement of the stem in the sleeve when the water in the radiator is at a predetermined level.

In testimony whereof I affix my signature.

RONALD ROPTE.