Aug. 11, 1925. 1,549,474

D. W. FEINBERG

GASOLINE TANK VALVE

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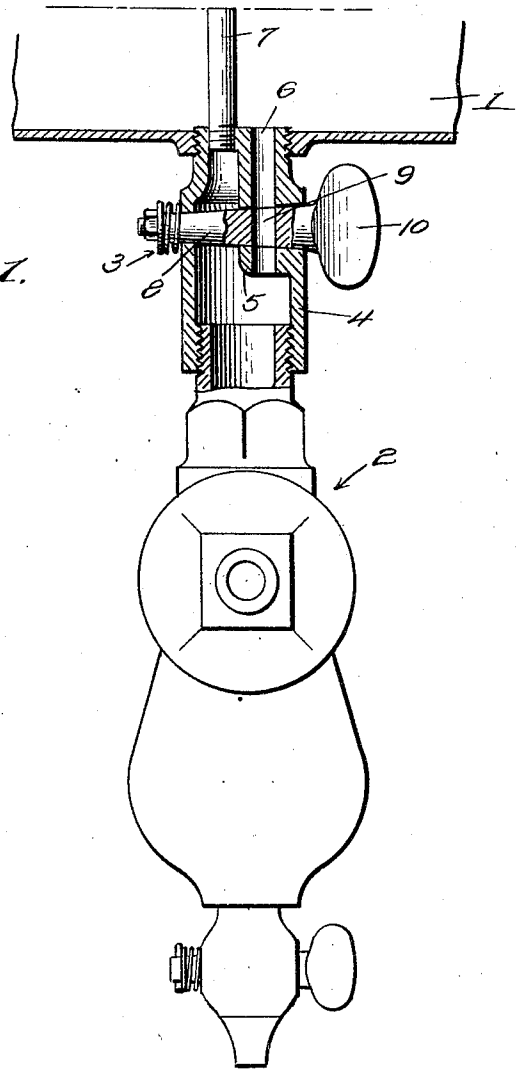


Fig. 1.

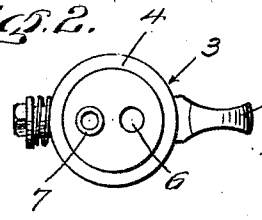


Fig. 2.

Inventor
D. W. Feinberg

By Marmee & O'Brien.
Attorney

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UNITED STATES PATENT OFFICE.

DAVID W. FEINBERG, OF LOS ANGELES, CALIFORNIA.

GASOLINE-TANK VALVE.

Application filed January 7, 1925. Serial No. 1,036.

To all whom it may concern:

Be it known that I, DAVID W. FEINBERG, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Gasoline-Tank Valves, of which the following is a specification.

This invention relates to an improved valve to be used in conjunction with the common petcock and the gasoline supply tank of automobiles of the Ford type.

The principal object is to provide a simple and inexpensive device, which can be interposed between the usual petcock and tank, and threaded into the existing screw threaded opening of the latter, at the same time permitting the pet cock to be connected therewith, whereby to obviate the necessity of making alterations in the existing structure.

The improved device has been designed for the purpose of effectively notifying the driver of the machine, that the supply of gasoline in the tank has receded to a dangerous low level.

In carrying out the idea, an additional valve is interposed between the petcock and the gasoline supply tank, the same being provided with a small pipe extending into the interior of the tank to determine the low level of the gasoline supply.

Other objects and advantages of the invention will become apparent from the following description and drawings.

In the accompanying drawings, forming a part of this application, and in which like numerals are employed to designate like parts throughout the same:

Figure 1 is a view, partly in section, and partly in elevation, of a fragment of the gasoline supply tank, the usual petcock and the improved indicating valve, in association therewith.

Figure 2 is a top plan view of the improved valve construction.

In the drawings, the reference character 1 designates a gasoline supply tank which, as is usual, is provided at its bottom with a screw threaded opening into which the customary pet cock 2 is adapted to be tapped. In accordance with the present invention, a supplemental valve 3 is interposed between the pet cock 2 and tank 1 and is tapped into the existing screw threaded hole in the latter. The supplemental valve comprises a casing, of hollow tubular form, reduced and screw threaded at its top to permit it to be tapped into the screw threaded hole in the tank. At its opposite end it is internally screw threaded, to permit the reduced screw threaded end of the usual pet cock 2, to be connected thereto. It is provided internally with an enlargement 5, which is bored, to provide a passage 6. It is also constructed at its top to permit a small overflow pipe 7 to be connected thereto. A rotary turn plug 8 is mounted for rotation in the casing, and is provided with a port 9, adapted to register with the passage 6. It is also provided on its exterior with a finger piece 10 to facilitate operation and at its opposite end with appropriate spring means of ordinary construction, to insure proper seating of the valve.

In practice, the valve 3 is tapped into the screw threaded opening in the bottom of the gasoline tank 1, as shown in the drawing, and the pipe 7 extends into the interior thereof. Consequently, when the fuel level reaches and goes slightly below the upper open end of the pipe 7, no further fuel can flow from the tank and through the pet cock 2. Consequently, when the fluid reaches this predetermined low level, the engine will stop, and the driver will be notified that the supply in the tank must be replenished. In order, however, to permit the small quantity of gasoline remaining in the bottom of the tank to pass therefrom, the operator can open the turn plug 8, to register the port 9 with the passage 6, permitting the tank to be drained.

It is thought that the foregoing description, taken in connection with the accompanying drawings will enable persons skilled in the art to which the invention relates, to obtain a clear understanding of the same. For this reason, a more lengthy description is deemed unnecessary.

Although I have shown and described the preferred embodiment of my invention, I wish it to be understood that minor changes coming within the field of invention claimed may be resorted to, if desired.

I claim:

In a structure of the class described, an auxiliary valve adapted to be interposed between a gasoline tank and a petcock, said valve comprising a casing provided with an internal longitudinally bored enlargement, the bore of which constitutes an auxiliary

passage, said enlargement being provided with a bore intersecting the first named bore, said intersecting bore being tapered, said enlargement being of a length less than the length of the casing and extending from the top of the latter to a point adjacent the center, said casing being externally screw threaded at its top and internally screw threaded at its bottom whereby to permit the upper end to be tapped into a screw threaded hole in the gasoline tank and to permit the petcock to be tapped into the casing, said casing being provided with an opening opposite the intersecting tapered bore aforementioned, a rotary tapered valve plug extending through said bore and opening and provided on one end with a handle, and a spring surrounding the opposite extended end of said plug, together with a relatively short pipe fitted into the upper end of said casing.

In testimony whereof I affix my signature.

DAVID W. FEINBERG.