

Feb. 8, 1938.

J. R. MCGEE

2,107,952

SIGNALING DEVICE

Filed Nov. 5, 1936

FIG. 1.

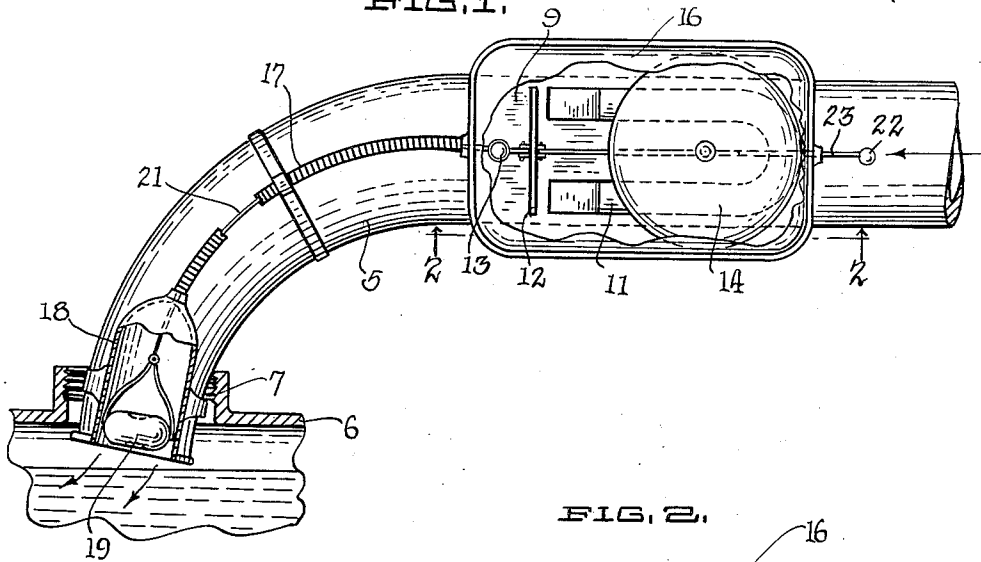


FIG. 2.

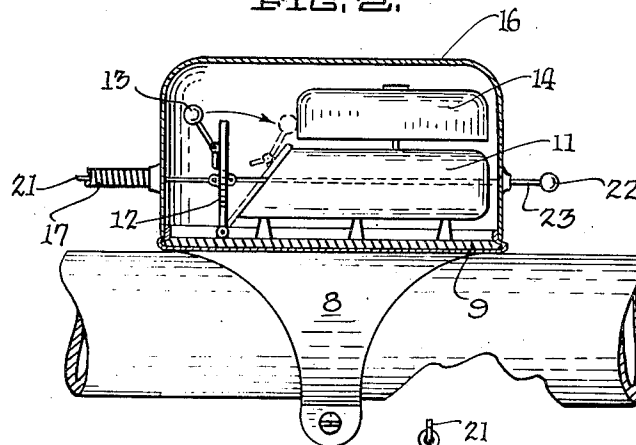


FIG. 3.

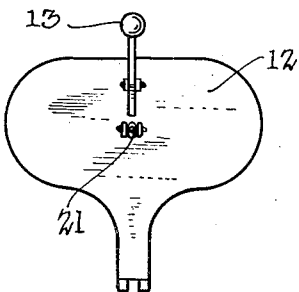
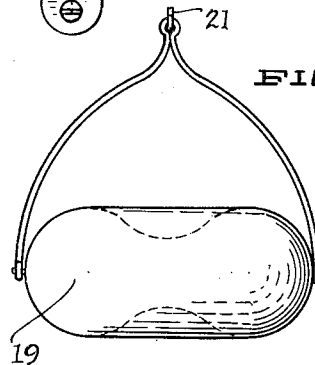


FIG. 4.



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2,107,952

SIGNALING DEVICE

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Application November 5, 1936, Serial No. 109,369

2 Claims. (Cl. 226-66)

This invention relates to improvements in signaling devices and has particular reference to an alarm for gasoline hose and the like.

The principal object of this invention is to provide means for indicating when a tank is filled from a hose entering thereinto.

A further object is to produce a device of this character which may be clamped upon an ordinary filling hose without altering its construction.

A further object is to produce a device of this character which is simple in construction, economical to manufacture, and simple to install.

Other objects and advantages will be apparent during the course of the following description.

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

Fig. 1 is a side elevation of my device as the same would appear attached to the nozzle of a filling hose;

Fig. 2 is a side elevation of the bell ringing mechanism, the housing therefor being shown in cross section;

Fig. 3 is an enlarged detailed view of the armature and bell clapper; and

Fig. 4 is an enlarged detailed view of the float.

In the ordinary gasoline filling station, the filling hose terminates in a metal nozzle, the end of which may be flexible or rigid. This end is placed in the tank of the vehicle, and the gasoline flows therefrom into the tank. It often occurs that the attendant will fill the tank to overflowing, which results in a waste of gasoline, a soiling of the car, and at the same time introduces a serious fire hazard when the gasoline spills. I have, therefore, devised an alarm which will indicate that the tank has been filled to a safe limit and in ample time for the attendant to shut off the further flow of gasoline to the tank.

In the accompanying drawing wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 5 designates the nozzle of a filling hose; the numeral 6, the tank to be filled through the customary filling opening 7.

My device consists of a clamp 8 which is attached to the hose or nozzle and serves to support a plate 9 upon which is mounted a permanent magnet 11 and a pivoted armature 12. This armature 12 has a clapper 13 pivoted thereto and adapted to strike a bell 14, which forms an audible signal. This mechanism—that is, the magnet, the armature, the clapper, and the bell—are protected by a housing 16, to which housing is secured a flexible conduit 17, the same continuing to an open-ended bell-shaped housing 18 mounted adjacent the end of the nozzle 5. Within this housing 18 is a float 19 connected by a flexible wire 21 to

the armature 12. A resetting knob 22 is connected by a wire 23 to the armature 12.

The result of this construction is that when the nozzle is placed in the tank, the resetting knob 22 is pressed so as to move the armature 12 to the full line position of Figs. 1 and 2. At that time, the float 19 is just within the housing 18; and, consequently, as the gasoline rises in the tank 6, it will encounter the float, raising the same and pushing the wire 21 in such a manner as to move the armature 12 toward the permanent magnet. As soon as the armature comes within attracting distance of the magnet, the same will be snapped against the poles thereof, thus causing the clapper on the armature to be forcibly moved against the bell 14, thereby giving an audible signal, with the result that the attendant may shut off further flow of gasoline, thus saving wastage.

It will be apparent from the above that my device may be readily attached to an ordinary nozzle, and that the same will accomplish all the objects above set forth.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the material, size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described my invention, I claim:—

1. In combination with a nozzle of a hose, of an audible signal, a clamp secured to said nozzle and supporting said audible signal, a housing secured to the outer surface of said nozzle at a point adjacent the outlet thereof, a float positioned in said housing, a flexible connection between said float and said audible signal, whereby when said float is moved said audible signal will be sounded, said audible signal including a permanent magnet, an armature mounted adjacent thereto and actuated by said flexible means, striking means carried on said armature, and a bell engaged by said striking means.

2. In a signaling device for use with a hose, a casing adapted to be attached to the hose at a point remote from the end thereof, of a float positioning housing secured to the outer surface of said hose and adjacent the end thereof, a float mounted in said housing, an audible signal positioned in said first-mentioned casing, a flexible connection extending from said float to said audible signal and positioned at the outer surface of said hose, the ends of said housing and casing being open and in the same plane as the ends of the hose, whereby when fluid rises in said housing said float will actuate said audible signal.

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