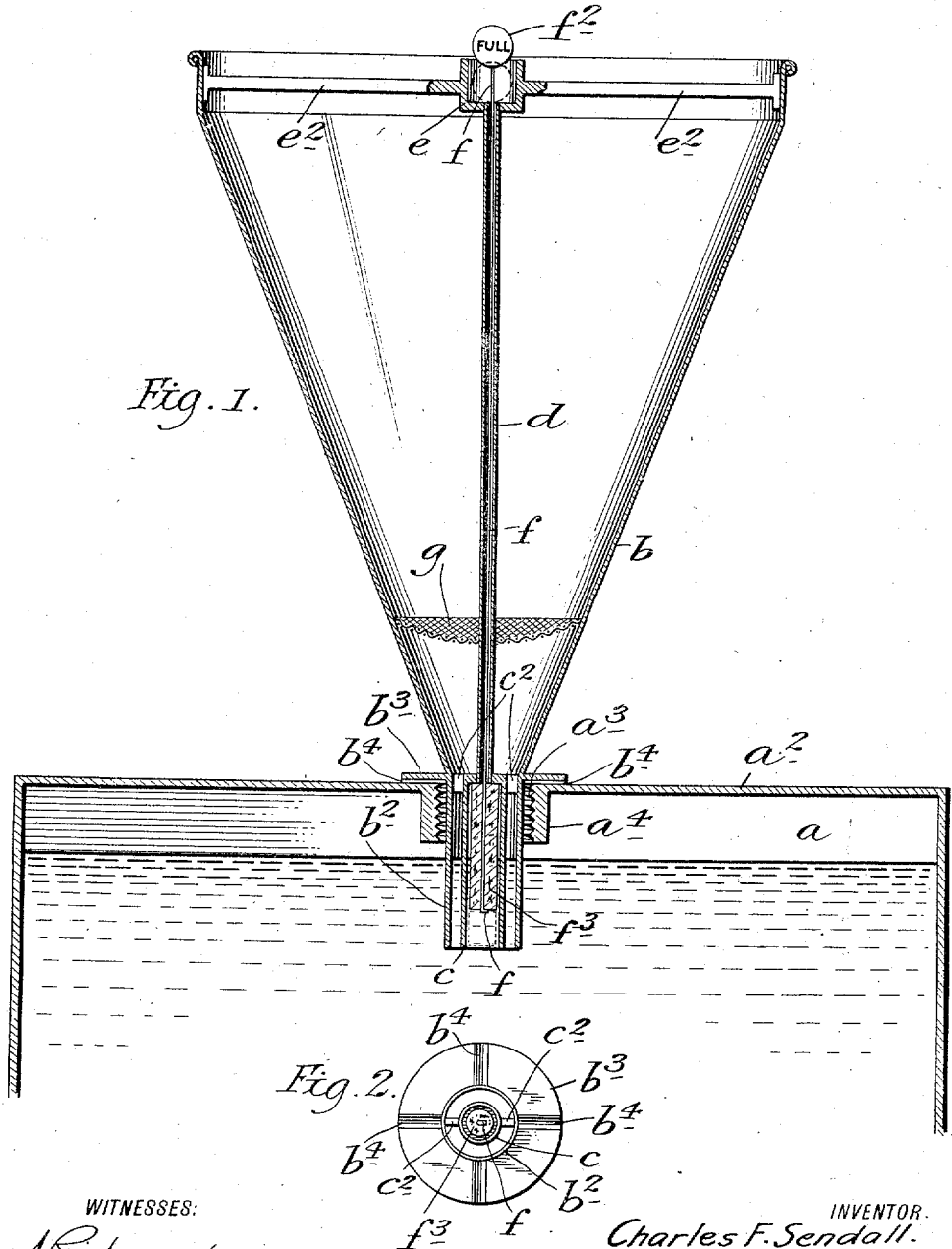


962,674.

Patented June 28, 1910.



WITNESSES:
A. R. Appleman
B. E. Nutcrum

INVENTOR.
 Charles F. Sendall.
 BY *Edgar Tate & Co.*
 ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES F. SENDALL, OF BROOKLYN, NEW YORK.

INDICATOR-FUNNEL.

962,674.

Specification of Letters Patent.

Patented June 28, 1910.

Application filed December 16, 1909. Serial No. 533,344

To all whom it may concern:

Be it known that I, CHARLES F. SENDALL, a citizen of the United States, and residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Indicator-Funnels, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to funnels for use in filling the gasoline tanks of automobiles or similar vehicles with gasoline or similar material, and the object thereof is to provide a device of this class which is simple in construction and provided with an indicator which is automatically operated when the tank is filled to indicate the fact.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a sectional view showing a part of a gasoline tank and my improved funnel and the method of its operation;— Fig. 2 a bottom plan view of the funnel device with the body of the funnel omitted.

In the drawing forming part of this specification I have shown at a the top part of a gasoline tank of the class usually employed in connection with automobiles, and the top a^2 of said tank is provided with an opening a^3 around which is an inwardly directed screw threaded collar a^4 , and in practice the tank is closed by means of the screw threaded plug in the usual manner, said plug being not shown.

In the practice of my invention I provide a funnel device comprising the usual tapered body portion b , the smaller end of which is provided with a tubular extension b^2 adapted to be passed through the aperture a^3 and around which is a flange b^3 , the bottom of which is provided with radial grooves b^4 .

Within the tubular extension b^2 at the bottom of the funnel is placed a concentric tube c , the top of which is closed and connected with the funnel, and the tubular extension b^2 by radial web members c^2 , and the top of the tube c is closed and connected therewith is a smaller central tube d which communicates with the tube c and which

passes up through the funnel body and into a receptacle e supported centrally of the top or larger end of the funnel by radial members e^2 . Passing vertically through the tube c is a wire or rod f with the upper end of which is connected, a disk or other device f^2 preferably provided with the word full, and the lower end of the wire or rod f is connected with a float f^3 vertically movable in the tube c .

Whenever it is desired to fill the tank a^2 the tubular extension b^2 of the funnel is passed inwardly through the aperture a^3 , and the flange b rests on the top of the tank a and holds the funnel in proper position, the gasoline is then poured in the top of the funnel and passes down into the tank and as the gasoline rises in said tank, the air passes out through the aperture a^3 and through the radial grooves b^4 in the bottom of the flange b^3 , and when the tank is filled, or approximately so, the float f^3 rises, and the rod f and disk f^2 are moved upwardly so that said disk is exposed above the top of the receptacle e , as indicated in Fig. 1, and this indicates that the tank is filled. The funnel b is also preferably provided with a screen g near the bottom or smaller end thereof, but this forms no part of my invention.

Any suitable device may be substituted for the disk f^2 , as an indicator connected with the rod f , and changes in and modifications of the construction described may be made, within the scope of the appended claims, without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A funnel, the discharge or smaller end of which is provided with a tubular extension, at the top of which is an annular flange, a supplemental tube placed concentrically in said tubular extension and of the same length and the upper end of which is closed, a tubular member connected with the upper end of the supplemental tube and in communication therewith and extending upwardly through the funnel, a float placed in the supplemental tube, and a rod connected with said float and passing upwardly through the said tubular member and provided at its upper end with an indicator,

said supplemental tube being provided with means for limiting the upward movement of said float.

2. A funnel, the discharge or smaller end
5 of which is provided with a tubular extension, and an annular flange in the bottom of which are radial grooves, a supplemental tube placed in said tubular extension and provided with a tubular member which
10 passes upwardly through the funnel, a receptacle supported in the top or larger end of the funnel and with which said tubular member communicates, and a rod passing

through said tubular member and provided at its lower end with a float movable in the supplemental tube and at its upper end with an indicator adapted to rest in said receptacle. 15

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 20 15th day of December 1909.

CHARLES F. SENDALL.

Witnesses:

C. E. MULREANY,
B. M. RYERSON.