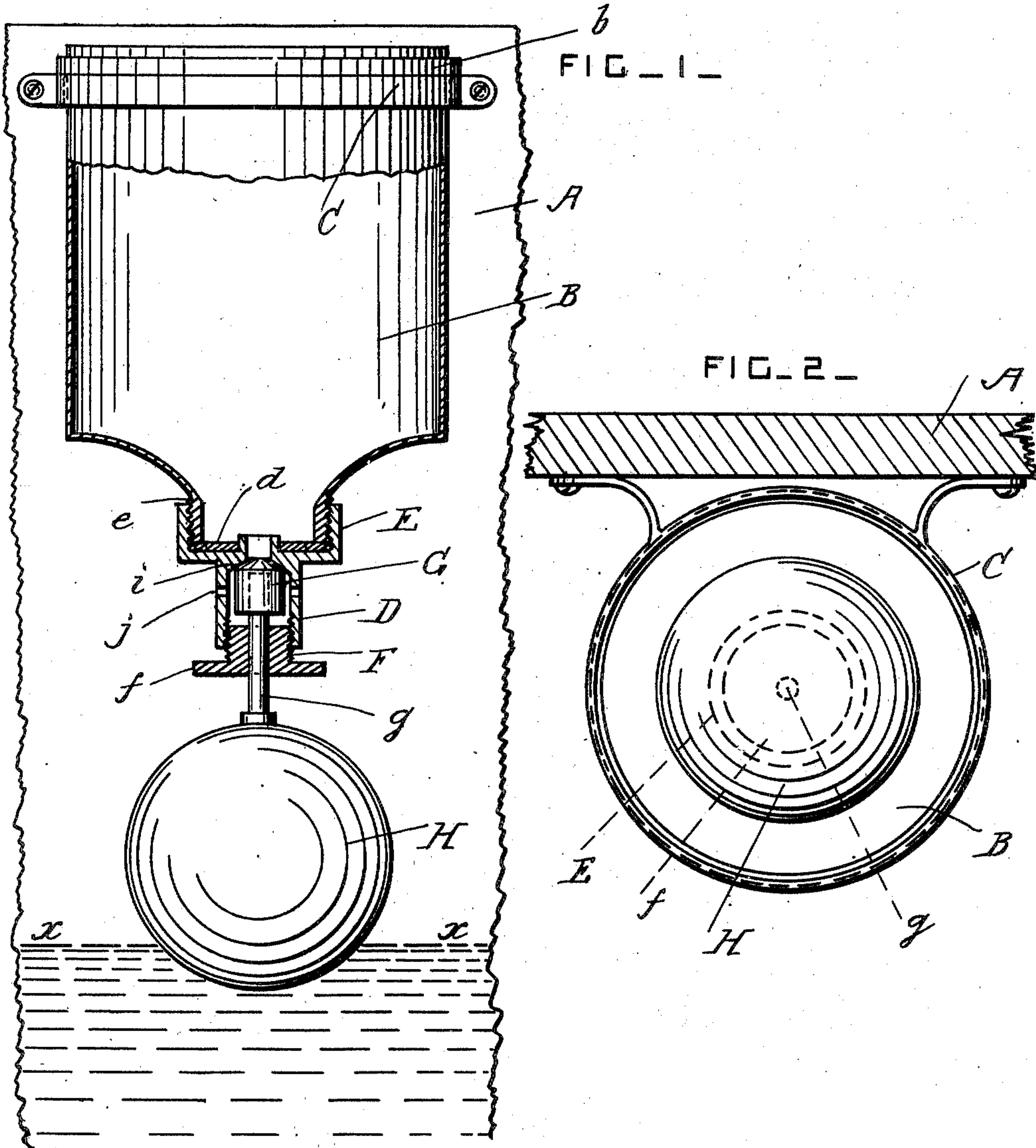


G. H. GARNET.
DISINFECTOR.

APPLICATION FILED AUG. 10, 1908.

966,900.

Patented Aug. 9, 1910.



WITNESSES:

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GEORGE HENRY GARNET, OF ALLENTOWN, PENNSYLVANIA.

DISINFECTOR.

966,900.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed August 10, 1908. Serial No. 447,854.

To all whom it may concern:

Be it known that I, GEORGE HENRY GARNET, a citizen of the United States, residing at Allentown, in the county of Lehigh and State of Pennsylvania, have invented certain new and useful Improvements in Disinfectors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to automatic disinfectors adapted to be connected to the cisterns of water-closets; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a vertical section through the disinfector. Fig. 2 is a plan view of the disinfector, from below.

A is a portion of a flushing-tank such as commonly used in connection with water-closets. This tank is provided with regulating-valves of any approved construction, which are not shown in the drawings, and $x-x$ is the normal level of the water in the tank, which is kept constant when the closet is not being used.

B is a reservoir for liquid disinfectant or chemical of any approved kind. This reservoir is supported over the water in the tank A by means of a supporting band C which is secured to the tank in any approved manner. The reservoir B is preferably slidable vertically in the support C, and b is a collar or stop which rests on the support C and holds the reservoir at a prearranged distance above the normal water level.

D is a tubular valve-casing which is provided with a screwthreaded cap E which screws onto a neck e on the bottom of the reservoir B. A packing-washer d of soft material is provided for keeping the cap water-tight.

F is a guide which is screwed into the lower end portion of the valve-casing D, and which is provided with a head f for revolving it, so that its vertical position may be adjusted.

G is a valve of any approved construction arranged in the valve-casing and provided with a valve-stem g which is slidable vertically in the guide F. A float H is secured to the lower end portion of the stem g .

The valve-casing D is provided with a valve-seat i at its upper part, and it has one or more outlet holes j at its middle part.

When the screwthreaded guide-plug F is screwed up so that it bears on the valve and presses the valve against the valve-seat, the flow of disinfectant is wholly stopped, and the said guide-plug is adjusted by the fingers to give the valve any desired opening.

The reservoir is filled with disinfectant by removing it from the tank and unscrewing the cap E, but the reservoir may be filled or replenished in any other approved manner.

The valve is normally closed by the float which is raised by the water in the tank. When the water level in the tank is lowered, the float descends and opens the valve, so that a portion of the disinfectant is allowed to flow out and mix with the water in the tank, and this action is repeated after each flushing operation. The extent of the opening of the valve, and the amount of disinfectant discharged, is regulated by means of the screwthreaded guide F which forms a stop for the valve to come in contact with.

What I claim is:

The combination, with a flushing-tank, of a reservoir for disinfectant arranged inside the said tank and provided with means for securing it in position, of a valve-casing suspended from the bottom of the said reservoir and provided with a passage connecting it with the reservoir, said valve-casing having also a valve-seat and a lateral outlet below the valve-seat, a screwthreaded guide-plug engaging with the lower part of the valve-casing and adjustable vertically to vary or to cut off the feed of disinfectant, a valve-stem slidable in the said guide-plug, a valve secured on the upper end of the said stem and projecting laterally around it and working between the said valve-seat and guide-plug, and a float secured on the lower end of the said stem and operated by the water in the flushing tank.

In testimony whereof I have affixed my signature in the presence of two witnesses.

GEORGE HENRY GARNET.

Witnesses:

CHAS. DECKER,

J. EDGAR GARNET.