

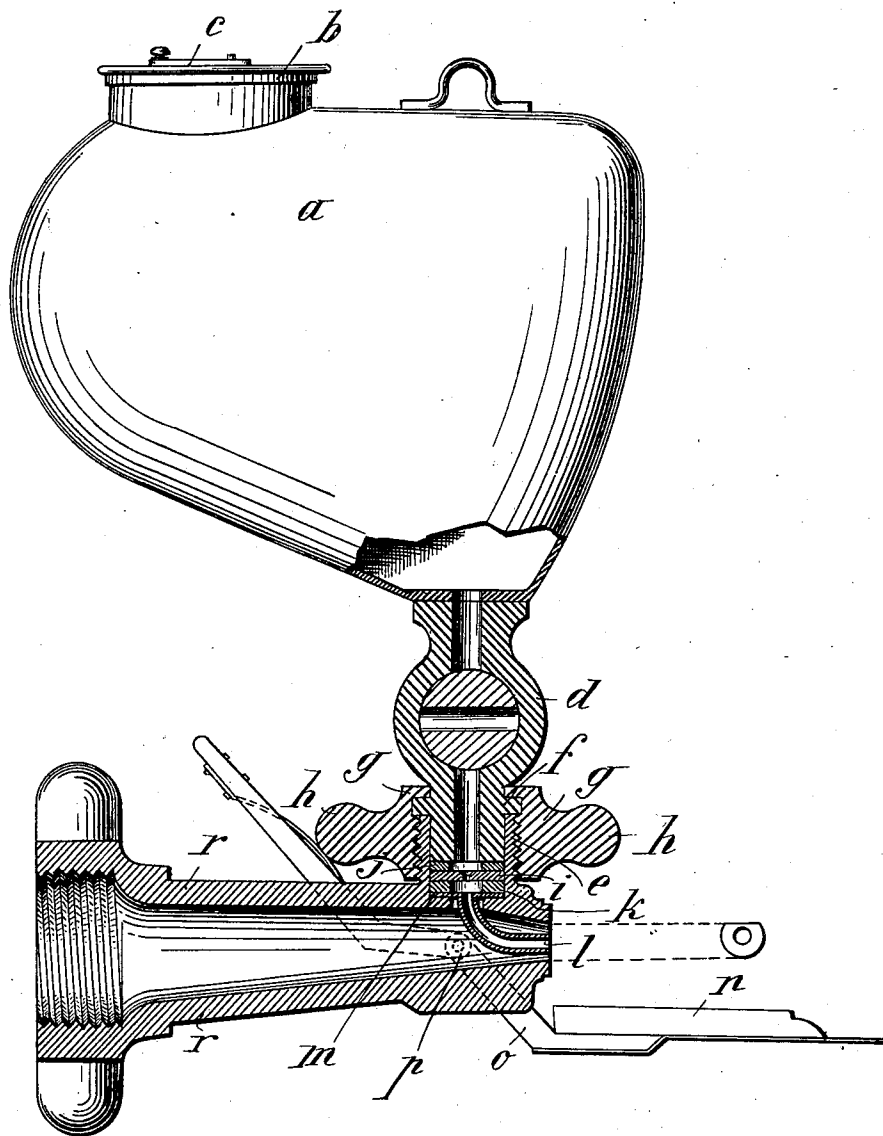
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PATENTED JUNE 9, 1903.

A. VERSCHUREN.
WATER DIRECTING APPLIANCE FOR DISINFECTING
OR FIRE EXTINGUISHING PURPOSES.

APPLICATION FILED OCT. 20, 1902.

NO MODEL.



Witnesses
C. Hannach
L. Waldman

Inventor.
Auguste Verschuren
per B. Singer,
Attorney.

UNITED STATES PATENT OFFICE.

AUGUSTE VERSCHUREN, OF ANTWERP, BELGIUM.

WATER-DIRECTING APPLIANCE FOR DISINFECTING OR FIRE-EXTINGUISHING PURPOSES.

SPECIFICATION forming part of Letters Patent No. 730,723, dated June 9, 1903.

Application filed October 20, 1902. Serial No. 128,011. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTE VERSCHUREN, a subject of the King of the Belgians, and a resident of Antwerp, Belgium, have invented certain new and useful Improvements in and Relating to Water-Directing Appliances Particularly Applicable for Disinfecting or Fire-Extinguishing Purposes, of which the following is a specification.

The object of my present invention is a device which can be used as a disinfecting-mixer for water-sprinkling purposes and which is equally applicable for mixing fire-extinguishing materials with water for the extinction of fires.

The drawing annexed hereto shows as an example of the invention a mixer, partly in section and partly in elevation.

The apparatus comprises a movable receptacle *a*, having a filling-orifice closed by a cover *b*, in which is provided a hole serving for the admission of air and which can be closed by a small pivoted plate *c*. At the lower part of the receptacle is fixed a cock *d*, adapted to draw off the liquid contained in the said receptacle and by the aid of which this latter is mounted on a specially-constructed delivery-nozzle. To effect this, the said nozzle has cast integral with it a screwed branch *e*, into which is engaged the spigot *f* of the cock *d*. A union-nut *g*, having operating-wings *h*, fixes the said spigot and cock onto the nozzle by being screwed on the branch *e*. The said nut *g* is also arranged to hold in place a device for regulating the supply of the disinfecting liquid coming from the receptacle. This regulating device consists of a metallic or ebonite disk *i*, perforated with a small central discharge-orifice, and is tightened up between two leather washers *j* and *k*. A curved tube *l*, the collar of which, *m*, is soldered to the bottom of the spigot *i*, is arranged in the axis of the nozzle, the end of which latter is made of the special form shown in the drawing.

The management of the device is very easy. It is sufficient to carry out the following operations: The apparatus is screwed onto a hose. The receptacle is filled with disinfectant or other liquid chemical, according to the purpose in view. The air-admission hole of the receptacle is uncovered. The valve or

cock of the hose (not shown in the drawing) is opened and also that of the mixer. The contents of the reservoir passing out by the small tube *l* mix intimately with a jet of water coming through the hose.

A spraying-plate *n*, fixed to a lever *o*, is arranged to oscillate on a pivot *p*, carried by the nozzle and can be operated by the finger of the operator to spread the jet to any desired extent.

The mobility of the reservoir permits the mixed jet to be used in all directions. This mixture can be made in any proportion, the regulating-disk being replaced at will by other disks having holes of various diameters.

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

1. In a device for mixing chemicals with discharge-water, the combination of a nozzle, a branch on the nozzle, a reservoir mounted on the branch, a cock between the branch and the reservoir, a pierced disk between two washers inserted in the connection between the reservoir and the nozzle.

2. In a device for mixing chemicals with discharge-water, the combination of a nozzle, a branch on the nozzle, a reservoir mounted on the branch, a cock between the branch and the reservoir, means for inserting disks of different apertures between the reservoir and the nozzle.

3. In a device for mixing chemicals with discharge-water, the combination of a nozzle, a branch on the nozzle, a reservoir mounted on the branch, a removable cover on the reservoir, a cock between the branch and the reservoir; a pierced disk between the reservoir and the nozzle; means for inserting disks of different apertures between the reservoir and the nozzle.

4. In a device for mixing chemicals with discharge-water, the combination of a nozzle, a branch on the nozzle, a reservoir mounted on the branch, a removable cover on the reservoir, an air-hole in the cover, means for closing the air-hole, a cock between the branch and the reservoir; a pierced disk between the reservoir and the nozzle; means for inserting disks of different apertures between the reservoir and the nozzle.

5. In a device for mixing chemicals with

discharge-water, the combination of a nozzle, a branch on the nozzle, a reservoir mounted on the branch, a cock between the branch and the reservoir, a pierced disk between two washers inserted in the connection between the reservoir and the nozzle, a curved internal pipe leading from the branch to the orifice of the nozzle.

6. In a device for mixing chemicals with discharge-water, the combination of a nozzle, a branch on the nozzle, a reservoir mounted on the branch, a cock between the branch and the reservoir, a pierced disk between two washers inserted in the connection between the reservoir and the nozzle, a curved internal pipe leading from the branch to the orifice of the nozzle, a spraying-plate pivoted to the nozzle, and means for swinging the same in front of the nozzle-orifice.

7. In a device for mixing chemicals with discharge-water, the combination of a nozzle, a branch on the nozzle, a reservoir for the reception of the materials to be mixed with the discharge-water mounted on the branch, a removable cover on the reservoir, an air-hole in the cover, means for closing the air-hole, a cock between the branch and the reservoir, a pierced disk between the reservoir and the nozzle, means for inserting disks of different

apertures between the reservoir and the nozzle, a curved internal pipe leading from the branch to the orifice of the nozzle; a spraying-plate pivoted to the nozzle and means for carrying the same in front of the nozzle-orifice.

8. In a device for mixing chemicals with discharge-water, the combination of a nozzle, having an orifice of the special shape shown in the drawing, a branch on the nozzle, a reservoir, for the reception of the materials to be mixed with the discharge-water mounted on the branch, a removable cover on the reservoir, an air-hole in the cover, means for closing the air-hole, a cock between the branch and the reservoir, a pierced disk between the reservoir and the nozzle, means for inserting disks of different apertures between the reservoir and the nozzle, a curved internal pipe leading from the branch to the orifice of the nozzle; a spraying-plate pivoted to the nozzle and means for carrying the same in front of the nozzle-orifice.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

AUGUSTE VERSCHUREN.

Witnesses:

A. VANDEN BOGUERT,
G. DE LERRY.