(No Model.)

R. A. BALLOU.

FAUCET FOR CHEMICAL FIRE EXTINGUISHERS.

No. 348,096. Patented Aug. 24, 1886.

Fig. 1.

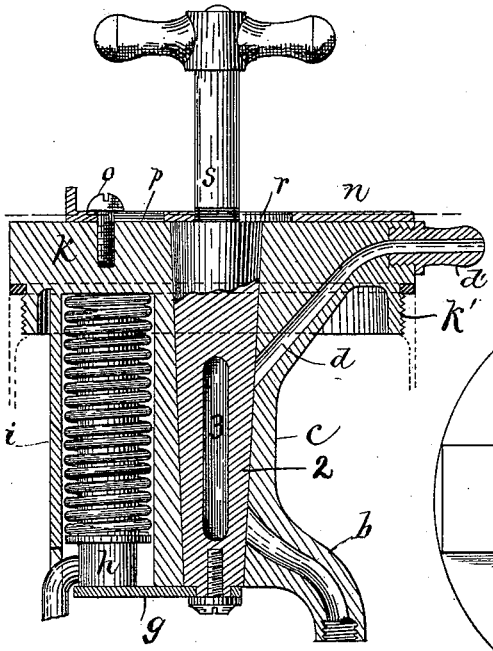
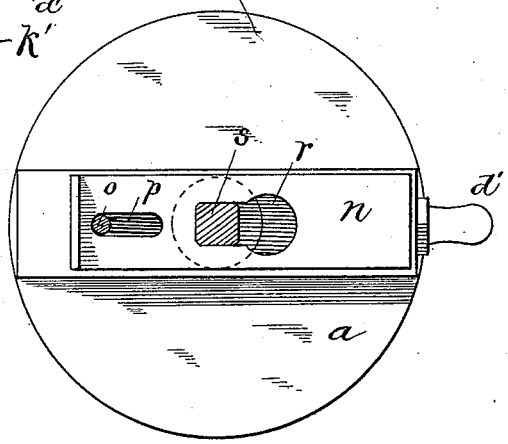


Fig. 2.



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UNITED STATES PATENT OFFICE.

RUSSELL A. BALLOU, OF NEWTON, MASSACHUSETTS, ASSIGNOR TO THE CHEMICAL HAND FIRE EXTINGUISHER COMPANY, OF PORTLAND, ME.

FAUCET FOR CHEMICAL FIRE-EXTINGUISHERS.

SPECIFICATION forming part of Letters Patent No. 348,096, dated August 24, 1886.

Application filed November 23, 1885. Serial No. 183,690. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL A. BALLOU, of Newton, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Faucets, of which the following is a specification.

My invention relates to faucets, and more particularly to the class intended for use in connection with fire-extinguishing apparatus; and my invention consists in improvements in such faucets, all as hereinafter described, and subsequently pointed out in the claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a sectional view of my improved faucet and cover, showing the faucet closed. Fig. 2 represents a top view of the faucet and cover.

The same letters of reference indicate the same parts in all the figures.

My improvement is mainly intended for a chemical fire-extinguishing apparatus like that shown in my pending application for Letters Patent of the United States, filed September 28, 1885, Serial No. 178,347, said apparatus consisting of a receptacle adapted to contain liquid chemicals, a glass bottle in said receptacle adapted to contain another chemical or chemicals, and means for breaking said bottle to liberate the contents and mix said chemicals, thus generating gases and creating pressure in the receptacle, which forces the gases and liquid through an outlet or nozzle controlled by a faucet.

In carrying out my invention I secure the casing *c* of said faucet rigidly to the cap or the cover *k* of said receptacle, preferably by casting them in one piece, the cover having a threaded flange, *k'*, adapted to be secured to a thread cut on the receptacle. The faucet has a branch, *b*, extending into the interior of the receptacle, said branch being preferably supplemented by a pipe extending nearly to the bottom of said receptacle.

d represents the outlet-passage of the faucet-casing, extending through the cover *k* and preferably terminating in a short nozzle, *d'*, on the outside of the cover.

2 represents the plug of the faucet, having a groove or way, 3, formed to connect the branches *b d* when turned to the one position, and to shut off communication between them when turned away from said position. To the lower end of the plug is attached an arm, *g*, which, when the faucet is closed, acts to support a spring-plunger, *h*, in a holder, *i*, formed with or attached to the faucet-casing *c*, said plunger being held by the arm *g* when the faucet is closed, and released so as to cause the breakage of the glass bottle in the receptacle when the faucet is opened, as shown in my above-named application and in another application filed concurrently with this. The socket formed in the casing *c* for the plug 2 is extended through the top of the cover, so that the plug can be inserted and removed through the top of the cover.

n represents a plate fitted to slide on the top of the cover *k*, and secured thereto by a screw, *o*, inserted in the cover through a slot, *p*, in said plate. The plate has a key-hole-shaped slot, *r*, through which the stem *s* of the plug passes. Said stem has two parallel sides at the point where it passes through the slot *r*, and the narrower portion of said slot fits closely against said parallel sides and prevents the stem from turning when the plate *n* is at one end of its movement.

When the plate is moved so as to cause the wider end of the slot *r* to inclose the stem *s*, said stem is released and may be freely rotated. When the stem is locked, as above described, the plug 2 is in position to close the faucet and hold the plunger *h*. It will be seen that the faucet and cover thus united so as to form one part, enables the faucet with its discharge-nozzle to be readily applied to and removed from the receptacle, while the extension of the plug-socket and plug through the top of the cover enables the plug to be readily removed for cleansing or repairs.

This improvement is not limited to fire-extinguishing apparatus, but the faucet with the cover or cap may be applied to other receptacles with which faucets are used.

In another pending application filed September 28, 1885, No. 178,347, I have shown a faucet-casing formed on a cover and provided with a plug, and with an inlet-passage formed to extend into the vessel to which the cover belongs, and with an outlet-passage passing through the cover.

My present invention differs from that set

forth in my above-named application, in that a locking device is provided in the present instance to hold the faucet-plug closed. I do not therefore here claim the cover having the casing and faucet-plug, excepting as improved in the particular specified.

I claim—

The combined cover or cap and faucet, consisting of the cover having the faucet-casing formed integral therewith, the said cover being provided with a screw-threaded flange adapted to engage with and be screwed upon the screw-threaded portion of the receptacle to which it is to be applied, a plug-socket extending through the casing and the top of the receptacle, a branch passage formed in the casing and communicating with the interior of the receptacle and with the plug, and an outlet-passage formed in the casing or cover communicating with the plug and the exterior of the cover, and a locking device consisting of an adjustable plate provided with a key-hole-shaped slot through which the stem of the plug passes, the construction and arrangement being such as that when the smaller or square-shaped part of the slot engages said stem the plug is held from rotating, and when said stem is in the larger or circular portion of the slot the plug may be rotated, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 12th day of November, 1885.

RUSSELL A. BALLOU.

Witnesses:
C. F. BROWN,
H. BROWN.