Oct. 28, 1924. 1,513,670

A. NUHN

SPRINKLER

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Fig. 1.

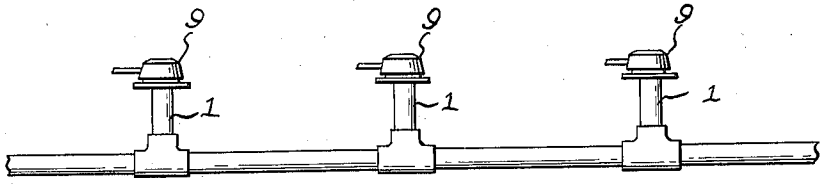


Fig. 2.

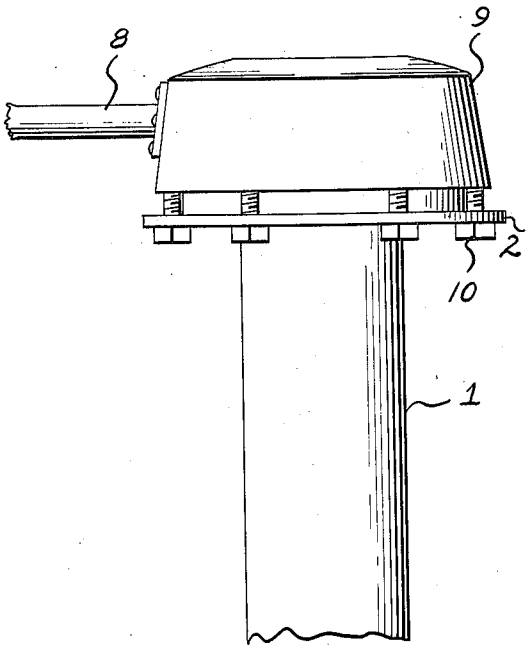
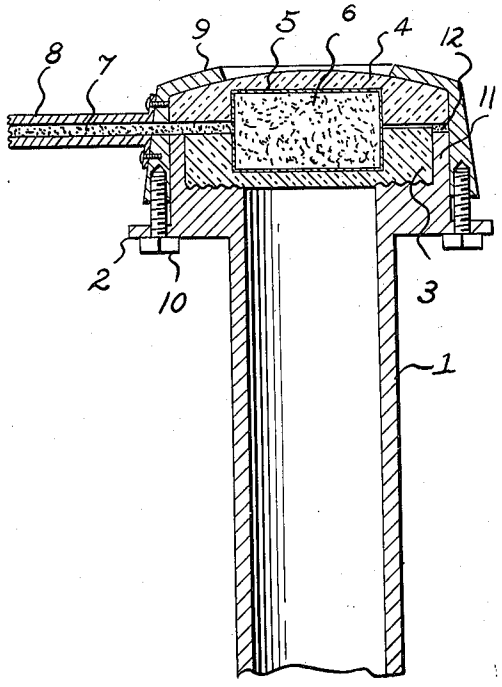


Fig. 4.



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INVENTOR

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ATTORNEY

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Fig. 3.

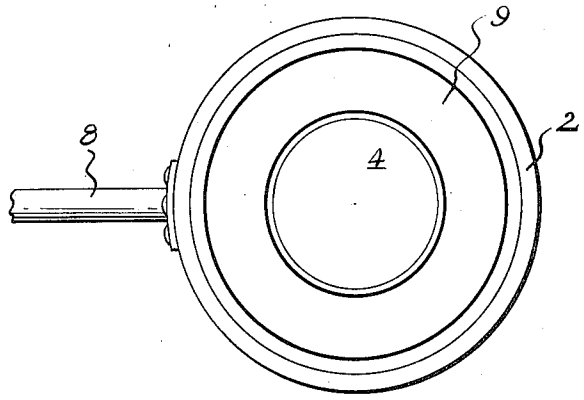
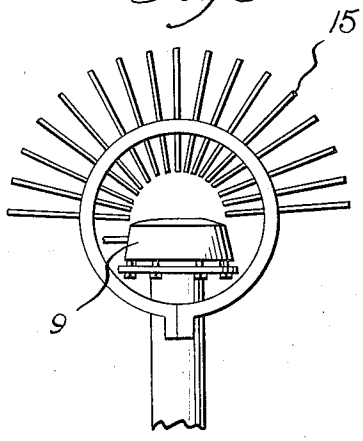


Fig. 6.

Fig 5.



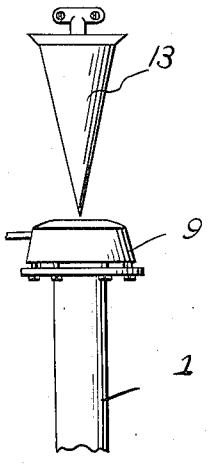
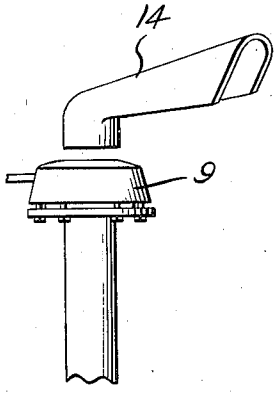


Fig. 7.



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WITNESS:

Patented Oct. 28, 1924. 1,513,670

UNITED STATES PATENT OFFICE.

ALBERT NUHN, OF VERMILION, OHIO.

SPRINKLER.

Application filed March 26, 1923. Serial No. 627,769.

To all whom it may concern:

Be it known that I, ALBERT NUHN, a citizen of the United States, residing at Vermilion, in the county of Erie and State of Ohio, have invented new and useful Improvements in Sprinklers, of which the following is a specification.

This invention relates to a sprinkler device, the general object of the invention being to provide means for automatically extinguishing a fire.

Another object of the invention is to provide means for dividing the flow of water so that it will come in contact with a large surface.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a view showing the invention in use.

Figure 2 is a side view of the improved device.

Figure 3 is a plan view.

Figure 4 is a longitudinal sectional view.

Figures 5, 6 and 7 are views of various ways of splitting up the stream of water.

As shown in these views each outlet pipe 1 of the sprinkler system carries a plate 2 which is provided with holes. This plate is recessed to receive a glass plate 3 and a cover plate 4 of glass rests upon the plate 3. These glass plates are recessed to form a chamber 5, when the plates are in position, into which is placed a cartridge 6 which is wrapped with oiled paper to make it weather proof. A fuse 7 has one end connected with the cartridge and this fuse passes through grooves formed in the two glass plates and through a tubular cover 8 formed of oiled paper or the like, the end of the fuse projecting from the oiled paper so that it will be ignited if a fire occurs in the building in which the device is placed. The two glass plates are held in position by the cover part 9 which is secured to the plate 2 by the bolts and nuts 10 and which has a flange 11 overlapping the plate 4. The plates are provided with gaskets 12 for making a tight joint between them.

Different kinds of spreaders may be used for directing the water flowing from the pipe 1 in different directions. One of these spreaders is shown as of conical shape, as at 13, while the other is of hood shape, as shown at 14, for directing the water in one direction only. The spreader shown at 15 will throw the water in all directions.

From the above it will be seen that when a fire occurs in the building in which the device is placed the fuse will eventually be ignited so that the burning of this fuse will explode the cartridge and thus the two glass plates will be broken so as to permit the water to flow from the pipe 1 and thus the fire will be extinguished. After the fire has been extinguished and the water turned off by any suitable form of valve new parts can be placed in position so that the device can be used again.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. A fire extinguisher of the class described comprising a supply pipe, a support adjacent the open end thereof, a pair of fragile members located on the support and covering the open end of the pipe, means for clamping the two members together, said members being centrally recessed to provide a chamber, a cartridge in the chamber, a fuse leading from the cartridge to the exterior of the device and means for spreading the stream flowing from the pipe.

2. A device of the class described comprising a supply pipe, a supporting member

thereon, a glass plate carried by the member and covering the open end of the pipe, a second plate seated upon the first plate, the two plates being centrally recessed to form a chamber, a cover member for clamping the two plates together and for holding them on the support, a cartridge in the chamber and a fuse leading from the cartridge and extending between the plates to the exterior of the device and a tubular cover for said fuse as and for the purpose specified.

In testimony whereof I affix my signature.

ALBERT NUHN.