Oct. 6, 1931. F. P. GIBSON 1,826,208

FAN AND SPRAY WHEEL ATTACHMENT FOR HOSE NOZZLES

Original Filed April 15, 1930 2 Sheets-Sheet 1

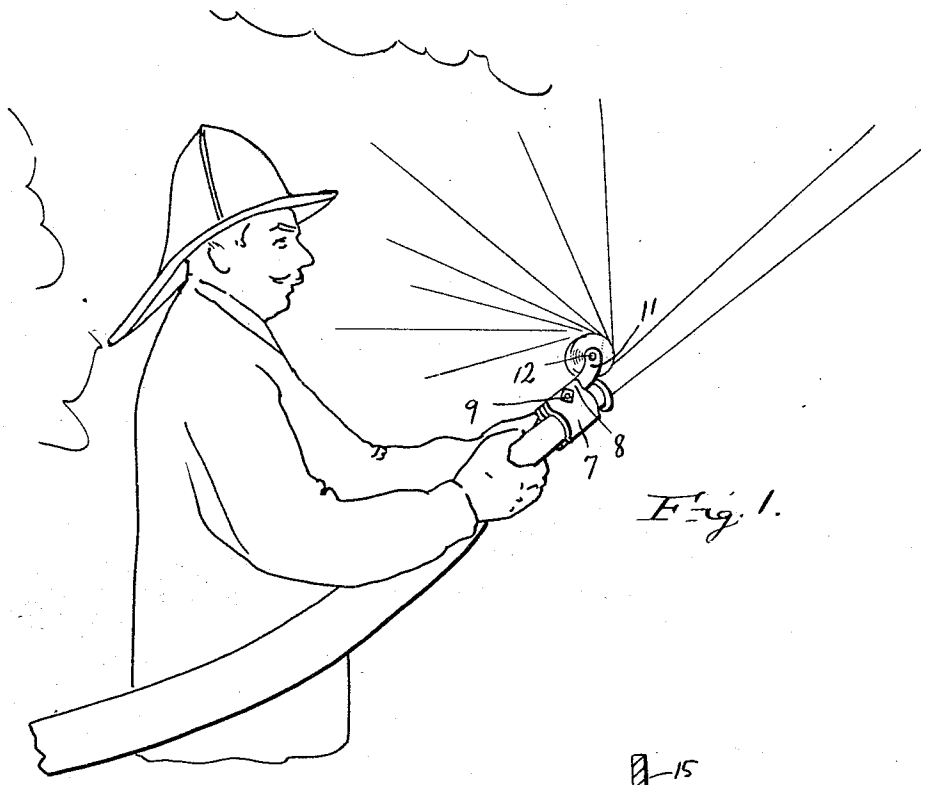


Fig. 1.

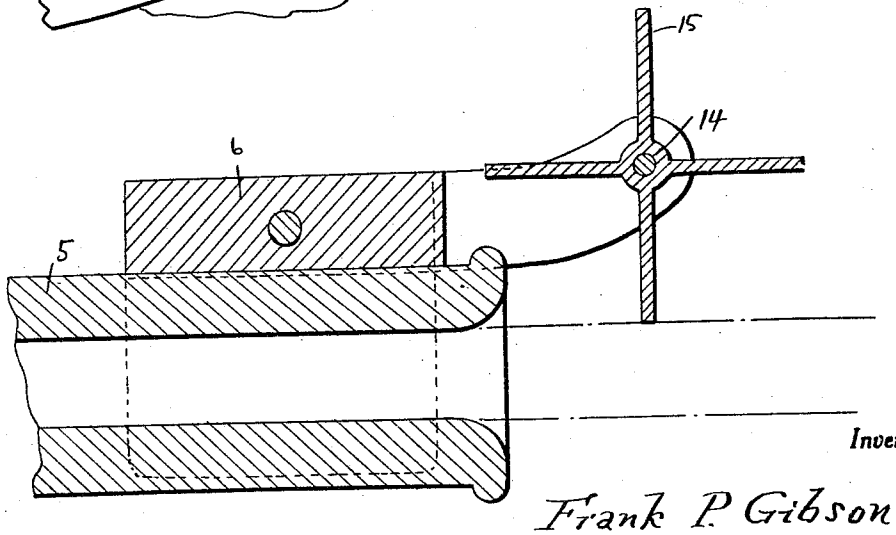


Fig. 2.

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Fig. 3.

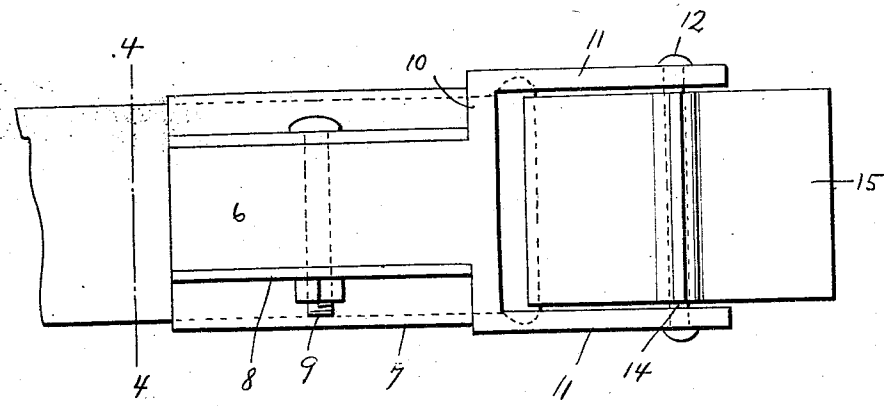
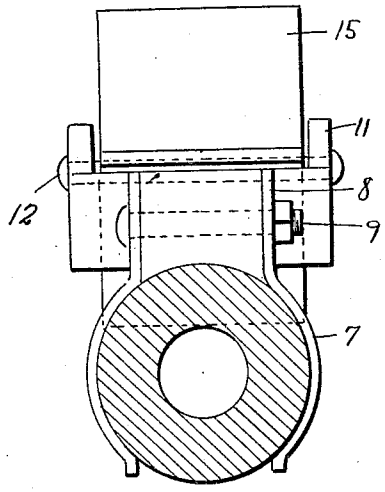


Fig. 4



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UNITED STATES PATENT OFFICE

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FAN AND SPRAY WHEEL ATTACHMENT FOR HOSE NOZZLES

Application filed April 15, 1930. Serial No. 444,473.

The present invention relates to an attachment for hose nozzles such as are used by firemen and has for its prime object to provide means in the nature of a fan operated by the stream of water to force cool air and the spray on to the face of the fireman or firemen directing the nozzle.

Also the fine spray that is thrown by the paddle wheel washes the air in the radius of approximately 10 feet of all impurities and gases particularly carbon dioxide gas, and clears the air of a small percentage of carbon monoxide gas. The spray will also neutralize the gases of ammonia and various acids.

Another very important object of the invention resides in the provision of an attachment of this nature which is exceedingly simple in its construction, inexpensive to manufacture, strong and durable, thoroughly efficient and reliable in use and operation, and otherwise well adapted to the purpose for which it is designed.

In the drawings:

Figure 1 is a perspective view of a hose nozzle in the hands of a fireman showing the attachment in place,

Figure 2 is a longitudinal section therethrough,

Figure 3 is a top plan view thereof, and

Figure 4 is a sectional view taken substantially on the line 4—4 of Figure 3.

Referring to the drawings in detail it will be seen that the numeral 5 denotes hose nozzle on which is held a shank 6 by means of clamp jaws 7 one to each side of the nozzle and having ears or extensions 8 bolted as at 9 or otherwise secured to the sides of the shank 6. At the front end of the shanks are lateral extensions 10 merging into forwardly directed arms 11 which may be curved upwardly if desired.

A pin 12 is disposed between the extremities of the arms 11 and has a paddle wheel journalled thereon comprising a hub 15 with suitable blades 16 projecting therefrom. These blades are adapted to be engaged by the top of the stream of water being projected from the nozzle so as to rotate in a counter clockwise direction as illustrated in Figures 1 and 2 so that a spray will be thrown on to the face of the fireman holding and directing the nozzle.

The very tips of the blades of the fan or paddle wheel just touch the top of the stream of the water sufficiently to cause the revolving thereof without materially impeding the water. The size will vary with the size of the nozzle. The method of attachment may vary with the construction or contour of the nozzle.

This air and spray being forced against the face of the fireman directing the nozzle will be of great assistance while fighting a hot fire in close places.

It is thought that the construction, operation, utility and advantages of this invention will now be thoroughly understood by those skilled in the art without a more detailed description thereof.

The present embodiment of the present invention has been disclosed in considerable detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts, in the sizes, shapes, etc., may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

In combination with the nozzle of a fire hose, a clamp encircling part of the nozzle, a pair of arms connected with the clamp and extended forwardly above the outer end of the nozzle and a paddle wheel journalled in said arms and arranged to have the extremities of the paddle engaged by the stream of water leaving the nozzle so that the wheel will be rotated by the water and caused to throw some of the water and a current of air against the person using the nozzle.

In testimony whereof I affix my signature.

FRANK P. GIBSON.