

C. J. MAIER.
 MEANS FOR CONTROLLING THE FLOW OF WATER THROUGH HOSE.
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1,337,247.

Patented Apr. 20, 1920.

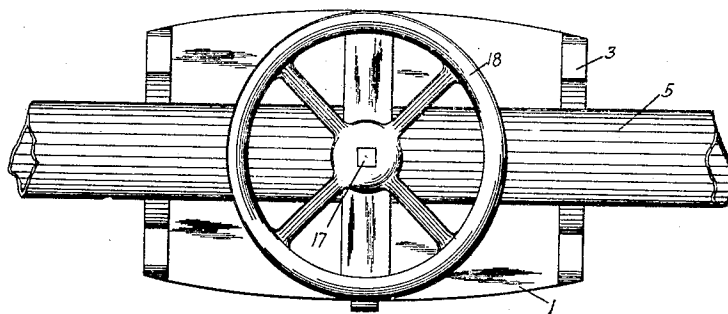


Fig. 1

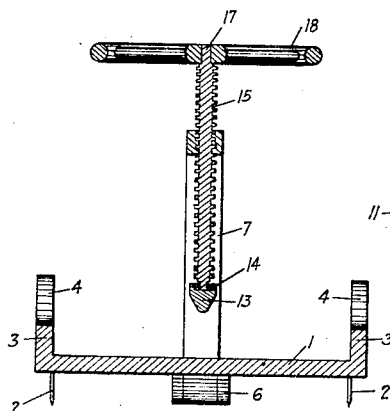


Fig. 2

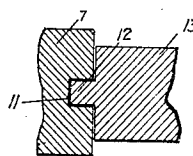


Fig. 4

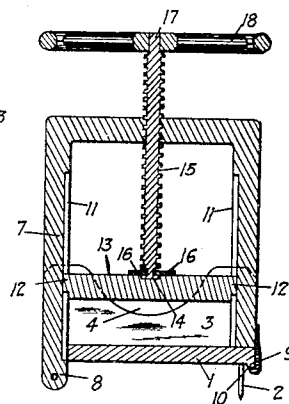


Fig. 3

WITNESSES:

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UNITED STATES PATENT OFFICE.

CLARENCE J. MAIER, OF DAYTON, OHIO.

MEANS FOR CONTROLLING THE FLOW OF WATER THROUGH HOSE.

1,337,247.

Specification of Letters Patent.

Patented Apr. 20, 1920.

Application filed July 15, 1919. Serial No. 311,005.

To all whom it may concern:

Be it known that I, CLARENCE J. MAIER, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Means for Controlling the Flow of Water Through Hose, of which the following is a specification.

The principal object of the invention is to provide means for controlling the flow of water through hose. It is particularly serviceable in fire department service, since it provides simple and efficient means that may be easily operated by a fireman to shut off the flow of water through a fire hose at a point near the nozzle, thereby making it unnecessary for the fireman to go back to the plug for that purpose. Downward pressure is exerted by the device upon the hose at a point directly below the operating medium, with the result that the water can be readily shut off irrespective of the direction of its flow therethrough.

Other important and incidental objects will be brought out in the following specification, and particularly set forth in the subjoined claims.

The preferred form of embodiment of the invention is illustrated in the accompanying drawings, of which Figure 1 is a top plan view of my improved device, showing a fire hose in position therein. Fig. 2 is a longitudinal sectional view taken through the device. Fig. 3 is a transverse sectional view taken through the same, and Fig. 4 is a detail sectional view, showing the tongue and groove construction for the vertically movable hose engaging member.

Throughout the specification and drawings, similar reference characters denote corresponding parts.

Referring to the accompanying drawings, the numeral 1 designates an oblong base member having straight ends and slightly curved sides. Projecting downwardly from said member, near each corner thereof, whereby it may obtain a firm grip on a relatively slippery place such as an asphalt street, is a sharp pin 2. (See Fig. 2). At each end of the base member 1 is an upwardly projecting portion 3, of the same width as the end of the member and provided in its top part with a concave recess 4 adapted to receive and support a hose 5. (See Figs. 1 and 3).

On one side of the base member 1, near its

middle portion, is a downwardly projecting grooved part 6 that receives the lower end of an approximately U-shaped slide supporting member 7 that is pivotally held in said grooved part 6 by a pin 8. After that section of a hose 5 which it is desired to close, is placed upon the base 1, the member 7 is turned to a position wherein it will straddle said hose. In this position it is adapted to be firmly held by a spring hook 9 secured to its free end, which is snapped over a downwardly projecting edge part 10 of the base 1. (See Figs. 1 and 3).

Provided in the facing portions of the legs of the member 7, is a vertical groove 11 adapted to loosely receive a tongue 12 projecting laterally from each end of a horizontal slide 13, whose bottom tapers to a rounded portion that is adapted to be pressed firmly against the hose by means now to be described, for the purpose of controlling the flow of water therethrough. Seated in the countersunk middle portion of the slide 13 is the T-shaped lower end 14 of a vertical screw 15 that extends upwardly through a threaded hole in the middle portion of the horizontal head portion of the supporting member 7. The lower end of the screw 15 is firmly connected to the slide 13 by fastening elements 16 secured to the latter, which bear against the cross portion of the T-shaped head 14 of the screw. The upper end of the screw 15 terminates in a reduced portion 17 that is preferably square in cross section to receive a hand wheel 18 by means of which the screw may be turned to move the slide 13 up and down within the U-shaped supporting member 7.

In operation, the base member 1 is placed in a street or other place to receive that portion of a fire hose which is near the nozzle attached thereto. After the U-shaped member 7 is drawn back, the hose is placed upon the recessed ends 3 of said base. The U-shaped member's free end is then moved over the hose and locked to the base by the hook 9. Now, when it is desired to shut off the flow of water through the hose, the hand wheel 18 is turned to press the slide 13 hard against it, which will quickly accomplish that result without the necessity of a fireman going back to the plug to shut off the water. Great pressure is exerted by the screw 15 when the hand wheel is turned; and the fact that that pressure is exerted vertically makes the device one which can be

readily operated by one man irrespective of the direction of flow of the water through the hose.

My improved controlling device is not confined in its usage to fire department service, but may be employed to control the flow of water through any flexible hose.

I do not desire to be limited to the details of construction and arrangement herein shown and described, and any changes or modifications may be made therein within the scope of the subjoined claims.

Having described my invention, I claim:

1. In a device of the type described, the combination with a base member, end pieces on said base member having concave portions upon which a section of hose is adapted to rest, of a U-shaped member pivotally secured to one side of the base member and adapted to be brought to a position over said hose, a spring hook on the free end of said U-shaped member adapted to be snapped over the side edge of the base member when in position over said hose, a slide vertically movable in said U-shaped member having a rounded bottom portion adapted to engage

said hose cross-wise, a screw movably secured at its lower end to said slide and projecting upwardly through a threaded hole in the cross head portion of the U-shaped member, and a hand wheel fitted on the upper end of said screw for the purpose of turning the latter to press said slide tightly against the hose to control the flow of water therethrough.

2. In a device of the type described, the combination with a base member upon which a section of hose is adapted to rest, of a bridging member pivotally secured to one side of the base member and adapted to be brought to a position over said hose, means for automatically securing the free end of said bridging member to the base member, a slide in said bridging member, and means adapted to press said slide tightly against said hose to control the flow of water there-through.

In witness whereof I have hereunto set my hand this 12th day of July, 1919.

CLARENCE J. MAIER.

Witness:

HOWARD S. SMITH.