

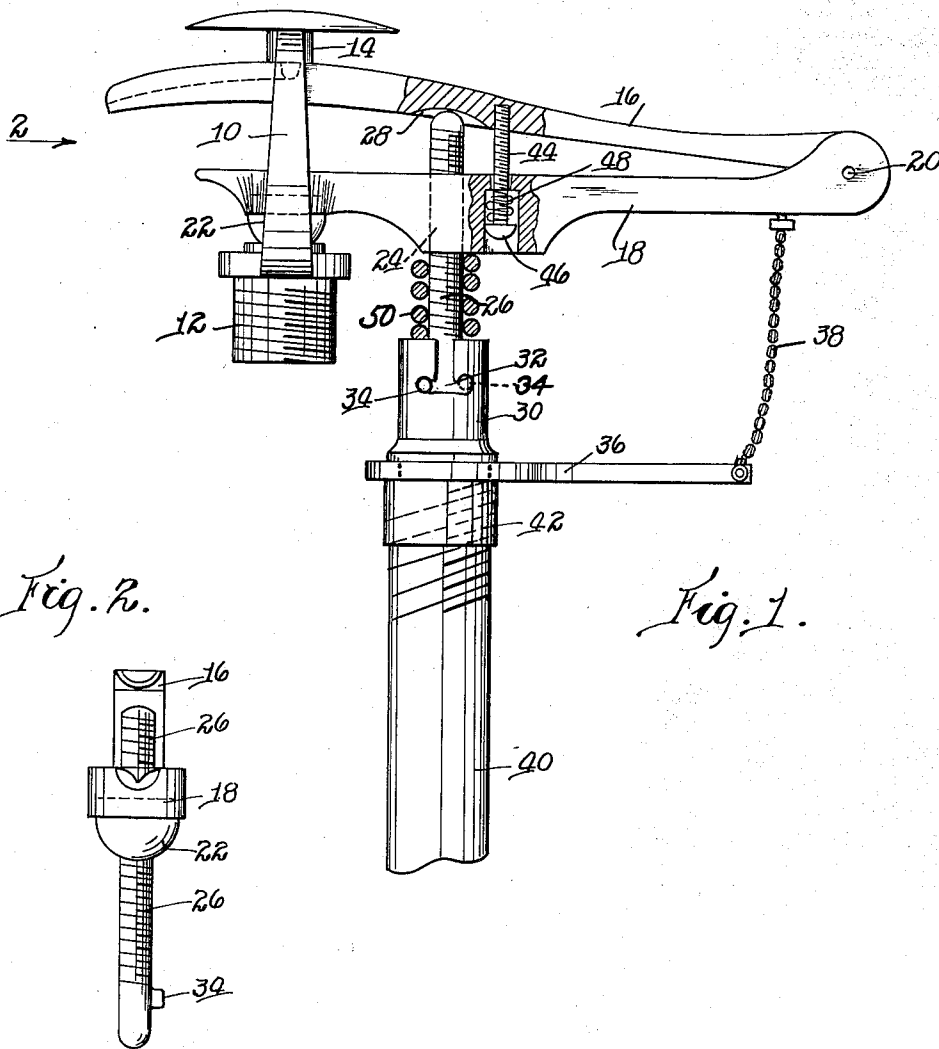
Jan. 16, 1951

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2,538,485

UNIVERSAL DEVICE FOR SHUTTING OFF SPRINKLER NOZZLES

Filed Nov. 10, 1948



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UNITED STATES PATENT OFFICE

2,538,485

UNIVERSAL DEVICE FOR SHUTTING OFF
SPRINKLER NOZZLES

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Application November 10, 1948, Serial No. 59,341

2 Claims. (Cl. 169-1)

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This invention relates to a device for shutting off sprinkler nozzles and the principal object of the invention is to provide devices which may be used with any sprinkler head of whatever size, type or manufacture for the purpose of shutting the same off after the fire, which occasioned the opening of the sprinkler, has been put out.

A further object of the invention resides in the provision of a device of the class described comprising an implement having a pair of elongated jaws pivoted together at one end, one of said jaws at the opposite end being provided with a guide for cooperation with a part of the sprinkler head for guiding the tool into operative position therewith and the other jaw having at its opposite end an element, such as a rubber hemisphere or the like, for engagement with the opening of the nozzle head to close the same, said jaws being held together by spring means and separated by screw means or the like.

Other objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawings in which

Fig. 1 is a view in elevation showing the present device as it appears when in use shutting off a sprinkler head; and

Fig. 2 is a view in front elevation looking in the direction of arrow 2 in Fig. 1 of the device alone.

As shown in the drawing, the reference numeral 10 indicates a sprinkler head which may be of any size, type or manufacture. Every sprinkler head comprises a ring part 12 adapted to be screwed into a water pipe and a yoke rising therefrom and terminating in a part 14. These sprinkler heads are old and well known and need no further description.

The tool herein described for shutting off the sprinkler head comprises a jaw 16 and a jaw 18 pivoted together at 20. The jaw 18 is provided at its opposite end with a deformable hemisphere or the like 22, which is used to close the opening in the connection 12 so as to shut off the sprinkler head. The jaw 18 has a screw threaded aperture at 24 in mesh with a screw 26 extending therethrough and impinging on the underside of the upper jaw 16 at 28 to force the jaw 16 away from the jaw 18, it being understood that the upper jaw 16 is locked against the element 14 of the sprinkler head, thus forcing the soft element 22 downwardly into position to shut off the opening in the connection 12.

In order to turn the screw 26, there is provided a socket 30 having a bayonet-type slot 32 receiving a projection 34 on the screw threaded ele-

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ment 26. The socket 30 is provided with a groove receiving a forked type of holder 36, allowing the socket to turn therein; the holder 36, in turn being connected to the jaw 18 by means of a chain 38. A rod or pole 40 may be screw threaded into the bottom end of the socket at 42, so that the rod may be released from the socket so as to leave the socket in position, or if desired, the socket itself may be removed by proper manipulation of the connection 34. The holder 36 connects the socket with the arm 18 because in most cases it is desired that the socket 30 shall be a part of the device and even though not connected thereto, as shown in the drawing, still it is more convenient to have a socket 30 for each sprinkler shut-off device.

The jaws are held together by means of a screw 44 having a head 46 and a spring 48 so that whenever the screw 26 is backed off, the jaws will come together.

It will be seen that when the fire is out the water from the sprinkler head will keep on falling, thus occasioning more unnecessary damage. A fireman, insurance squad man, or watchman can, however, turn off the open sprinkler head by means of the device above described by slipping the free ends of the jaws into the sprinkler head opening and turning the shaft 26 so as to separate the jaws. This, of course, is a temporary arrangement but will last until the mains are shut off and new fuse links are positioned in the sprinkler head, with the extra advantage that the device here is capable of closing off any and all sprinkler heads of whatever manufacture.

A spring 50 may be placed on the screw 26 to hold the tool in oriented relation to the rod 40, so that the tool may be directed and will not swing around on the threads.

Having thus described my invention and the advantages thereof, I do not wish to be limited to the details herein disclosed otherwise than as set forth in the claims, but what I claim is:

1. Universal sprinkler shut-off device comprising a pair of interpivoted arms, a rounded valve element on one arm remote from the pivot axis, said element facing away from the other arm, means on the latter to engage a part of a sprinkler head so that the element will close the sprinkler upon the separation of said arms when the said sprinkler part is engaged by said means, a screw threaded into and through one arm and bearing on the other arm to separate the arms upon rotation of the screw in the appropriate direction and to allow the arms to be moved toward each other upon rotation in the opposite

direction, a rod to turn the screw in either direction, a detachable connection between the rod and the screw, said connection being effective to temporarily connect the rod and screw and including means to rotate the screw as the rod is rotated, said screw rotating means being disengageable from the screw as desired, said rod serving as a handle to elevate the device to the sprinkler.

2. The device of claim 1 including a spring about the screw and bearing on one arm and the connection.

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