July 25, 1933. R. Y. MICKLER 1,920,128

LOCKING ATTACHMENT

Filed April 5, 1933

Fig. 1.

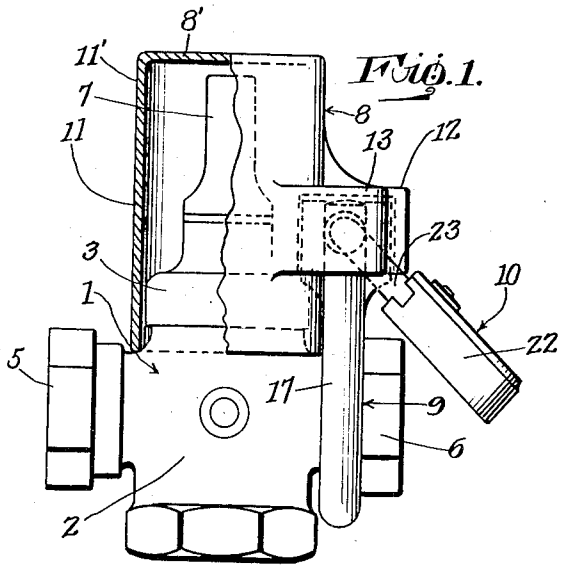


Fig. 2.

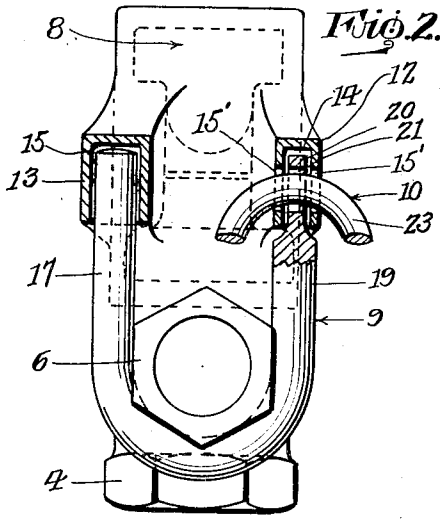


Fig. 3.

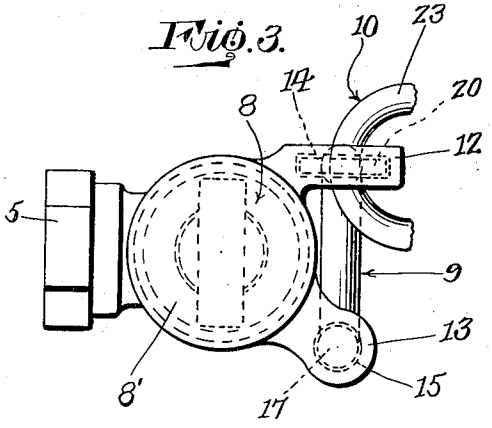


Fig. 4.

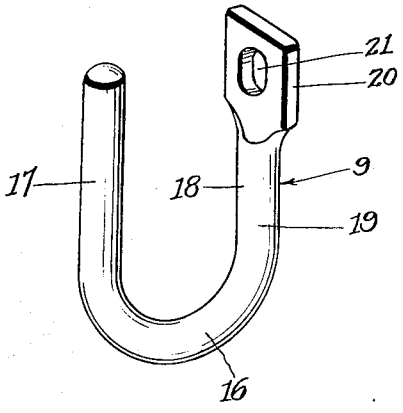


Fig. 5.

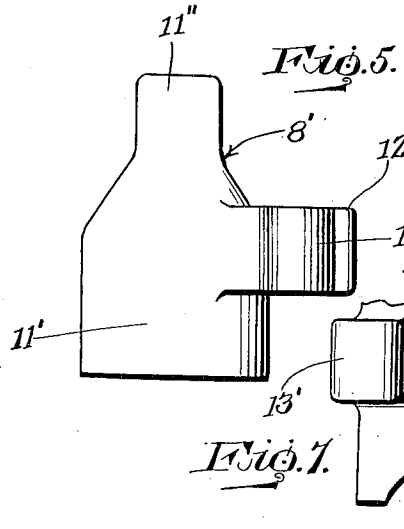


Fig. 6.

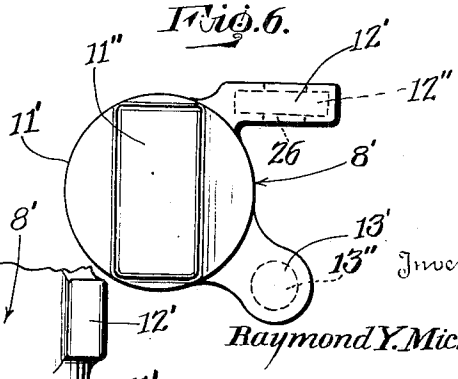


Fig. 7.

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UNITED STATES PATENT OFFICE

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LOCKING ATTACHMENT

Application filed April 5, 1933. Serial No. 664,609.

This invention relates to a locking attachment designed primarily for use in connection with a water supply controlling valve, but it is to be understood that a locking attachment, in accordance with this invention, may be employed in any connection for which it is found applicable, and the invention has for its object to provide, in a manner as hereinafter set forth, means to prevent the opening of a supply valve surreptitiously.

A further object of the invention is to provide, in a manner as hereinafter set forth, means to prevent the stealing of water from the water mains of any public utilities, whether municipal or private, after service has been cut off from the customer on the closing of the service valve.

Further objects of the invention are to provide, in a manner as hereinafter set forth, a locking attachment for the purpose referred to which is simple in its construction and arrangement, strong, durable, compact, readily installed with respect to the service valve without changing the construction of the latter, thoroughly efficient in use, and comparatively inexpensive to manufacture.

To the above ends essentially and to others which may hereinafter appear, the invention consists of such parts and such combination of parts which fall within the scope of the invention as claimed.

In the drawing:

Figure 1 is a side elevation of a service cock or valve showing the adaptation therewith of the locking attachment and with the latter broken away and in section.

Figure 2 is an end elevation of the service cock or valve showing the adaptation therewith of the attachment, the latter being shown in section.

Figure 3 is a top plan view illustrating the attachment applied to the service cock or valve.

Figure 4 is a perspective view of the holding element for the cap element of the attachment.

Figures 5, 6 and 7 are respectively a side elevation, top plan and front elevation of a modified form of cap element.

Referring to the drawing, 1 generally indicates a service cock or valve of a water supply line and it includes a valve housing 2 provided with an upstanding leg 3 at its top, a depending leg 4 at its bottom and a pair of oppositely disposed end legs 5, 6. The cock 1 includes a shiftable means 7 for the valve member, not shown. The means 7 extends upwardly from leg 3.

The locking attachment includes a cap element 8 or 8′, a holder element 9 and a locking element 10. The element 9 is for extension into a pair of spaced parts of elements 8 or 8′ and the element 10 functions to lock an element 8 or 8′ and element 9 together and to the cock.

The element 8 comprises a hollow body part 11 closed at its top as at 8′ and open at its bottom. The body part 11 is cylindrical. Formed integral with and intermediate the ends of body part 11 is a pair of spaced lateral extensions 12, 13. The extension 12 is of greater length than extension 13 and is formed with a rectangular socket 14 extending lengthwise thereof. The mouth of socket 14 is at the bottom face of extension 12. The extension 13 intermediate its ends is provided with a circular socket 15 having its mouth at the bottom face thereof. The diameter of socket 15 is greater than the width and less than the length of socket 14. The extension 13 is formed with a pair of aligning openings 15′ which communicate with socket 14.

The holding element 9 is of inverted U-shape and comprises a bottom 16 and a pair of arms 17, 18, the former being of circular cross section. The arm 18 for the major portion 19 of its length is of circular cross section and its remaining portion which is the upper part 20 thereof flattened and of rectangular contour. The thickness of part 20 is less than the diameter of the circular portion 19 of the arm 18. The length of part 20 is greater than the diameter of portion 19. The part 20 is provided centrally thereof with an opening 21.

The element 10 consists of a lock of the hasp type. The lock body is designated 22 and the pivoted hasp of the lock at 23.

When the attachment is used, the cap element 8 is positioned on the top of housing 2 and encloses the means 7. The holder element 9 is arranged against the bottom and sides of leg 4. The upper end of arm 17 of element 9 extends into socket 15. The part 20 of arm 18 is positioned in socket 14 in a manner whereby opening 21 will align with openings 15′. The free end of hasp 23

is then passed through the aligning openings and latched to the lock body 22. When the attachment is in the position referred to, the cock or valve will be locked to prevent means 7 thereof from being shifted to open the cock or valve. The latter cannot be opened until cap element 8 is removed.

Although the holder element 9 of the locking attachment is illustrated as connected to leg 4, due to the position in which the element 8 is placed, yet it is obvious that element 8 can be turned from the position shown to enable the holder element 9 to be connected to leg 3.

The cap element 8′, as shown in Figures 5, 6 and 7 comprises a hollow body part which is closed at its top and formed of a cylindrical lower portion 11′ and a reduced rectangular lower portion 11″. Formed integral with the upper end of portion 24 is a pair of spaced lateral extensions 12′, 13′ of the same form and arrangement as that of extensions 12, 13 respectively. The sockets in members 12′, 13′ are indicated at 12″, 13″ respectively. The bottom edge of portion 11′ at the sides thereof have convex cutout portions 25 for partly encompassing the legs 4, 5 in proximity to their points of mergence with the housing 2. The extension 12′ is formed with openings 26 for the same purpose as the openings 15′. The cap element 8′ performs the same function as that of cap element 8′ and coacts with elements 9 and 10 in the same manner as element 8.

What I claim is:—

1. In a locking attachment for a service cock, a hollow closed top cap element for mounting against the cock for enclosing the cock's valve member shifting means, said element being provided with spaced laterally extending socket forming extensions, a holder element for extension around a part of the cock and including a pair of arms having their outer ends positioned in the sockets formed by the extensions and a locking element including a member passing through one of said extensions and the outer end of that arm arranged in the socket provided by such extension for locking the cap and holder element together and to the cock.

2. In a locking attachment for a service cock, a hollow closed top cap element for mounting against the cock for enclosing the cock's valve member shifting means, said element being provided with spaced laterally extending socket forming extensions, a holder element for extension around a part of the cock and including a pair of arms having their outer ends positioned in the sockets formed by the extensions and a lock ing element including a member passing through one of said extensions and the outer end of that arm arranged in the socket provided by such extension for locking the cap and holder element together and to the cock, the socket formed by that extension through which said members passes being of rectangular contour and that end of the arm positioned in such socket corresponding to the contour of the latter.

3. In a locking attachment for a service cock, a hollow cap element for completely covering the cock's valve member shifting means, said element being formed with a pair of spaced lateral extensions, each of said extensions being formed with a socket adjacent the outer ends thereof, one of said extensions being formed with aligning openings communicating with the sockets therein, a holding element for partly surrounding a portion of the cock located at right angles to said means and including a pair of arms having their outer ends extended into said sockets, one of said outer ends being formed with an opening interposed between and aligning with said pair of openings, and a locking element including a hasp extended through said aligning openings for locking the cap and holding elements together and to the cock.

4. In a locking attachment for a service cock, a hollow cap element for completely covering the cock's valve member shifting means, said element being formed with a pair of spaced lateral extensions, each of said extensions being formed with a socket adjacent the outer ends thereof, one of said extensions being formed with aligning openings communicating with the socket therein, a holding element for partly surrounding a portion of the cock located at right angles to said means and including a pair of arms having their outer ends extended into said sockets, one of said outer ends being formed with an opening interposed between and aligning with said pair of openings, and a locking element including a hasp extended through said aligning openings for locking the cap and holding elements together and to the cock, the socket formed in that extension provided with the pair of openings being of rectangular form and the apertured end of said arm corresponding in contour to and positioned in said rectangular socket.

5. In a locking attachment for a service cock, a hollow cap element for completely covering the cock's valve member shifting means, said element being formed with a pair of spaced lateral extensions, a U-shaped holding element for partly surrounding a portion of the cock and having the upper ends of the arms thereof completely covered by said extensions, and a locking element including means passing through one of the extensions and that end of an arm completely covered by such extension for locking the cap and holder element together and to the cock.

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