

J. C. MELOON.
CAP FOR HOSE CONNECTIONS.
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1,163,355.

Patented Dec. 7, 1915.

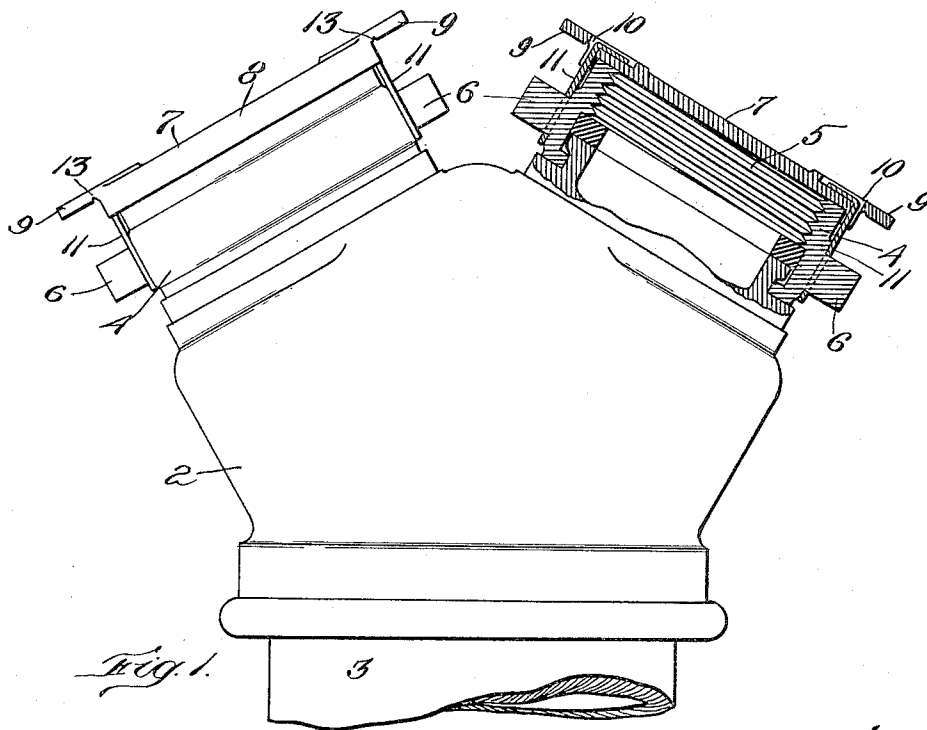


Fig. 1.

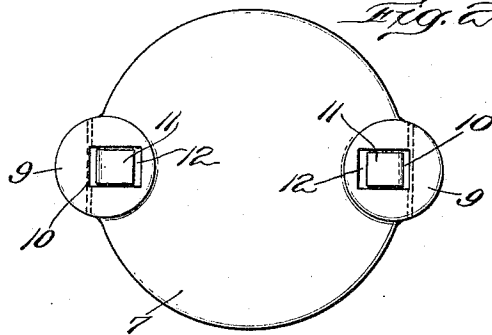


Fig. 2.

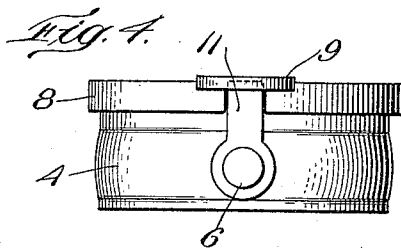


Fig. 4.

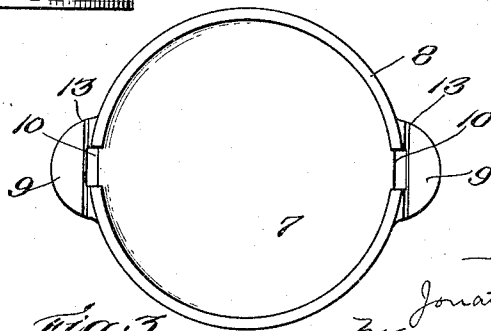


Fig. 3.

Inventor:
Jonathan C. Meloon,
by E. J. Chadwick atty.

UNITED STATES PATENT OFFICE.

JONATHAN C. MELOON, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO GENERAL FIRE EXTINGUISHER COMPANY, A CORPORATION OF NEW YORK.

CAP FOR HOSE CONNECTIONS.

1,163,355.

Specification of Letters Patent.

Patented Dec. 7, 1915.

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To all whom it may concern:

Be it known that I, JONATHAN C. MELOON, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented new and useful Improvements in Caps for Hose Connections, of which the following is a specification.

This invention relates to caps for fittings such as steamer connections and other hose connections which are designed for temporary attachment to a fire engine hose for the purpose of supplying water to stand pipes, automatic sprinkler systems and the like.

In accordance with the practice approved by the underwriters it is customary to provide the hose connection in such a fitting with a detachable cap whereby the inlet is kept closed when not in use, in order to prevent the careless or malicious introduction of sticks, stones or other obstacles liable to obstruct the flow of water, and the present invention is intended to provide a simple and inexpensive cap for this purpose which will be practically secure against accidental or unauthorized removal but can be quickly and easily detached by the fireman whenever it is desired to attach a hose to the connection.

In the accompanying drawing, Figure 1 shows a steamer connection provided with my cap as preferably constructed and combined with the fitting, the figure being mainly a plan view but showing certain parts in section; Fig. 2 shows the outer face of the applied cap; Fig. 3 shows the under side of the cap, detached; and Fig. 4 is an edge view showing a portion of the fitting and the applied cap.

The steamer connection 2 illustrated in the drawing is of familiar construction, being attached on its outlet side to a pipe 3 and having two inlets, each of which is provided with the usual swiveled ring 4 having internal screw threads 5, for connection with a hose, and diametrically opposite pins 6 adapted to be engaged by a spanner for rotating the ring. Each of the inlets is closed by a cap consisting of a cast-iron plate 7 placed against the outer edge of the corresponding ring 4 and having a peripheral flange 8 within which the edge of the ring is received. The plate 7 also carries two dia-

metrically-opposite outwardly-extending lugs 9, which are cast integral with the plate and are each provided with a perforation 10 located substantially at the periphery of the plate. The plate is secured to the ring 4 by two straps 11 made of bronze or other metal which can be bent, each of which is perforated at one end to receive one of the pins 6. After the plate has been placed upon the ring and the straps 11 have been applied to the two pins 6 and passed through the perforations 10 in the lugs 9 the free ends of said straps are bent inward and downward upon the top of the plate, which is preferably provided with recesses 12 to receive the bent-over ends as shown in Fig. 2.

By means of the straps above described the plate 7 is firmly held against the outer edge of the ring 4 without danger of being accidentally detached therefrom, but when it is desired to attach a hose to the fitting the fireman can release the cap in an instant by striking the projecting lugs 9 with his spanner and thereby breaking them off in line with the perforations 10 therein, each lug being preferably provided with a groove 13 extending along this line for the purpose of weakening the lug and thereby definitely locating the fracture at the proper place. After the lugs have been thus broken the straps 11 are slipped off the pins 6 and plate 7, whereupon the plate is free to be removed.

It will be evident that the cap above described cannot be detached from the hose connection without either breaking the lugs 9 or else employing a special tool for bending the turned-over ends of the straps 11, and as this is not likely to be done by unauthorized persons the cap is practically secure against detachment until a hose is to be connected. The cap is also of very simple and inexpensive construction, being in these respects a substantial improvement over the caps commonly used heretofore for the same purpose. Its details may be modified in various ways without departing from my invention, particularly in respect to the construction and location of the frangible lugs and the manner in which the straps are connected thereto.

I claim:

1. A detachable cap for hose connections, comprising a plate having frangible lugs, and straps each provided at one end with

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means for engaging the hose connection and adapted to have its other end bent into locking engagement with one of the lugs.

2. A detachable cap for hose connections, comprising a plate having frangible lugs with perforations therein, and straps each provided at one end with a perforation and adapted to have its other end passed through the perforation in one of the lugs and then bent over to prevent its removal therefrom.

3. A detachable cap for hose connections, comprising a plate having outwardly-extending frangible lugs with perforations therein, each lug being weakened in line with the corresponding perforation, and straps each provided at one end with a perforation and adapted to have its other end passed through the perforation in one of the lugs and then bent over to prevent its removal therefrom.

4. The combination with a hose connection comprising a swiveled internally-threaded ring with outwardly-projecting pins thereon, of a plate placed against the outer edge of the ring and having outwardly-extending frangible lugs with per-

forations therein, and straps engaging said pins and having their free ends passed through the perforations in said lugs and bent over to prevent their removal therefrom.

5. The combination with a hose connection comprising a swiveled internally-threaded ring with outwardly-projecting pins thereon, of a plate placed against the outer edge of the ring and provided with outwardly-extending frangible lugs, each lug having a perforation therein and also a weakening groove in line with the perforation, and perforated straps applied to said pins and having their free ends passed through the perforations in the lugs and bent over into recesses provided on the outer face of the plate.

In testimony whereof, I have hereunto subscribed my name this 25th day of August, 1915.

JONATHAN C. MELOON.

Witnesses:

HARRY B. JOHNSON,
ALBERT E. STRAIGHT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."