Nov. 8, 1927. 1,648,233

C. O. JOHNSTON

FIRE EXTINGUISHER

Original Filed July 9, 1926

Fig. 1.

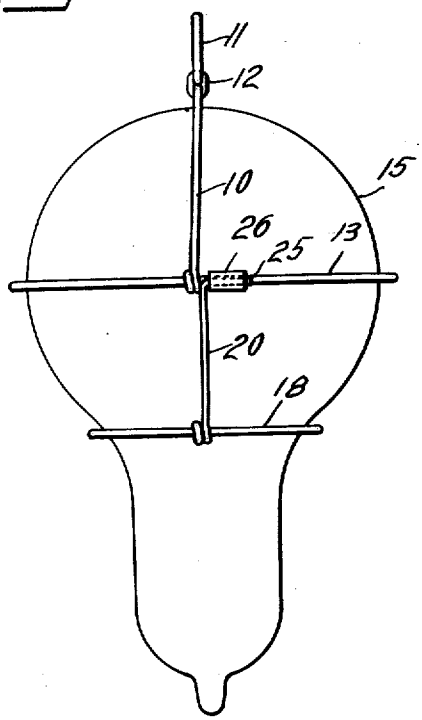


Fig. 2.

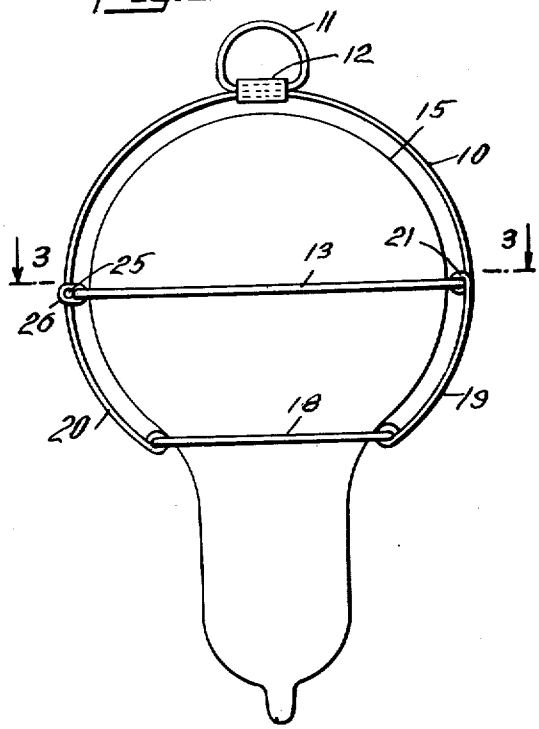
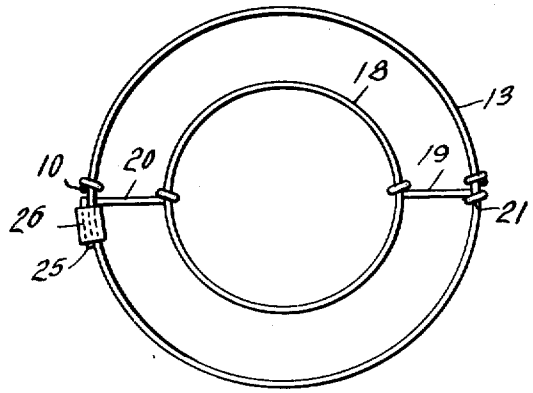


Fig. 3.



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Patented Nov. 8, 1927. 1,648,233

UNITED STATES PATENT OFFICE.

CHARLES O. JOHNSTON, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS, TO STANDARD FIRE EQUIPMENT CORPORATION, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

FIRE EXTINGUISHER.

Original application filed July 9, 1926, Serial No. 121,334. Divided and this application filed January 14, 1927. Serial No. 161,038.

This invention relates to fire extinguishers.

More particularly stated, the invention relates to the grenade type of fire extinguisher and to a holder or support for the grenade.

This invention has for its salient object to provide a support for a grenade so constructed that the grenade can be easily and readily removed therefrom and, furthermore, so constructed and arranged that in case of fire the grenade will automatically drop, break, and dispense the fire extinguishing fluid.

Another object of the invention is to provide a support or holder for a grenade so constructed and arranged that the grenade will be releasably held against accidental displacement or removal from the support.

Another object of the invention is to provide a bracket or holder for grenades comprising few parts and a structure that can be economically manufactured.

Further objects of the invention will appear from the following specification taken in connnection with the drawings, which form a part of this application, and in which

Fig. 1 is an elevational view illustrating one form of support and a grenade mounted thereon;

Fig. 2 is an elevational view taken at right angles to Fig. 1; and

Fig. 3 is a sectional elevation taken substantially on line 3—3 of Fig. 2.

The invention briefly described consists of a holder or support for a grenade preferably comprising two parts, one of the parts being adapted to be secured to a supporting structure and the other part forming the support for the grenade. The two parts are connected together by fusible metal in such a manner that in case of fire the fusible metal will melt and the grenade support will drop, releasing the grenade.

This application is a division of my copending application, Serial No. 121,334, filed July 9, 1926, and issued as Patent No. 1,633,254, June 21, 1927.

In the form of the invention shown, the grenade holder comprises a bail 10 having an eye 11 connected thereto by a sleeve 12 formed of fusible metal and the bail also has, secured to the lower end thereof a ring 13 which, as shown in Figs. 1 and 2, encircles the grenade 15 and forms a protection therefor. The ring 13 does not have any supporting function.

The grenade 15 is supported in a ring 18 carried by links 19 and 20. The link 19, as shown at 21, is bent around the ring 13 and pivoted thereon. The link 20, as shown at 25 in Fig. 3, is bent laterally into the plane of the ring 13 and the laterally bent end 25 is secured to the ring 13 by a sleeve 26 formed of fusible metal.

The form of the invention shown is particularly adapted for suspension from a ceiling and is suspended by the eye 11. In case of fire, when the temperature of the room in which the grenade is suspended rises to a predetermined extent, one or both of the sleeves 12 and 26 will melt, whereupon the grenade will be released and fall. The grenade 15 is formed of frangible material, such as glass, and contains a fire extinguishing fluid such as carbon tetrachloride. When the grenade falls it will break and release the tetrachloride which will form a blanket and smother the fire. If the sleeve 26 melts before the sleeve 12, the ring 18 will drop and the link 19 will swing about its pivot 21, thus releasing the grenade. It will be evident that it is not necessary for the sleeve 26 to entirely melt as the weight of the grenade will pull the extension 25 away from the sleeve as soon as it starts to melt.

From the foregoing description it will be evident that in each embodiment of the invention the grenade is supported in a ring which is connected to a bracket portion of a holder by a fusible connection. When this fusible connection melts, due to the rising temperature caused by the fire, this supporting ring will be released thus permitting the grenade to drop and extinguish the fire.

Although one specific embodiment of the invention has been particularly shown and described, it will be understood that the invention is capable of modification and that changes in the construction and arrangement of the various cooperating parts may be made without departing from the spirit or scope of the invention as expressed in the following claims.

What I claim is:

1. A support for grenade fire extingushers comprising a supporting bail having a

loop for suspending the supporting bail and a ring carried by said bail and adapted to encircle and support the grenade, the connection between said ring and bail including a fusible connection.

2. A support for grenade fire extinguishers comprising a bail having an eye connected thereto, a ring carried by said bail and adapted to encircle the grenade, and a second ring carried by said bail and ring and secured thereto by a fusible connection.

3. A support for grenade fire extinguishers comprising a bail having an eye connected thereto, fusible connecting means between the eye and bail, a ring carried by said bail and adapted to encircle the grenade, and a second ring carried by said bail and ring and secured thereto by a fusible connection.

4. A support for grenade fire extinguishers comprising a bail having an eye connected thereto, a ring carried by said bail and adapted to encircle the grenade, and a second ring pivotally carried by said bail and ring and secured thereto by a fusible connection.

5. A support for grenade fire extinguishers comprising a supporting bail, a ring carried by said bail and adapted to encircle a grenade, and means carried by the bail and adapted to embrace and support the grenade from below, said means including a fusible connection.

6. A support for grenade fire extinguishers comprising a supporting member, a pair of rings operatively connected to said supporting member and adapted to encircle the grenade, one of the rings being adapted to support the grenade from below, the connection to said supporting ring including a fusible element.

7. A support for grenade fire extinguishers comprising a supporting bail, a pair of rings operatively connected to said supporting bail and adapted to encircle the grenade, one of the rings being adapted to support the grenade from below, the connection to said supporting ring including a fusible element.

8. A support for grenade fire extinguishers comprising a bail having a loop for receiving a supporting bracket, a pair of rings carried by said bail and adapted to encircle the grenade, one of said rings being disposed above the other ring, the lower ring being adapted to support the grenade from below and being connected to the bail through a fusible connection.

9. A support for grenade fire extinguishers comprising a bail, a ring adapted to encircle and support a grenade from below and operatively connected to the bail through a fusible connection, and means connected to said bail above said ring and adapted to encircle the grenade.

In witness whereof, I have hereunto set my hand this 12th day of January, 1927.

CHARLES O. JOHNSTON.

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CERTIFICATE OF CORRECTION.

Patent No. 1,648,233. Granted November 8, 1927, to

CHARLES O. JOHNSTON.

It is hereby certified that the above numbered patent was erroneously issued to "Standard Fire Equipment Corporation, of New York, N. Y.", a Corporation of Delaware, whereas said Patent should have been issued to "International Fire Equipment Corporation, of New York, N. Y.", a corporation of Delaware, said Corporation being assignee by mesne assignments of the entire interest in said invention, as shown by the records of assignments in this office; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 17th day of January, A. D. 1928.

M. J. Moore,
Acting Commissioner of Patents.

Seal.

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