Aug. 24, 1943. J. W. MOSEMAN 2,327,365

CONTAINER FOR BOMBS

Filed June 14, 1941

Fig. 1.

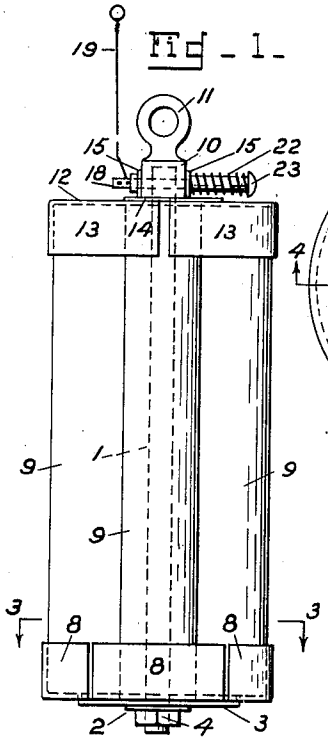


Fig. 2.

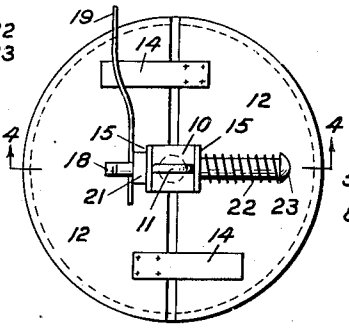


Fig. 3.

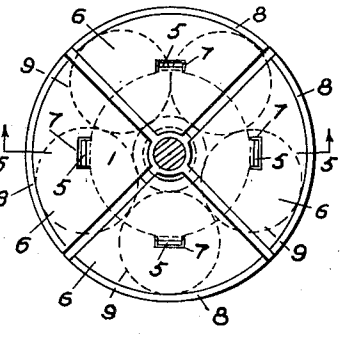


Fig. 4.

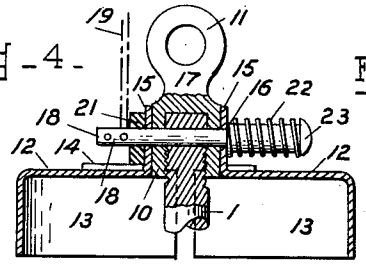


Fig. 10.

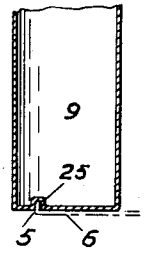


Fig. 9.

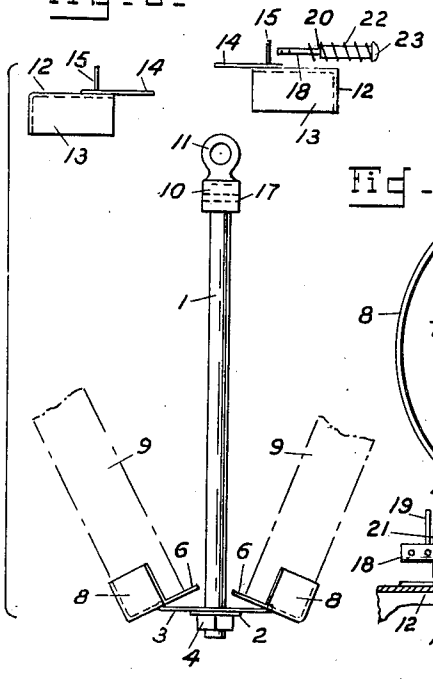


Fig. 5.

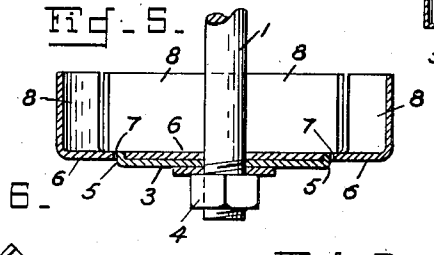


Fig. 6.

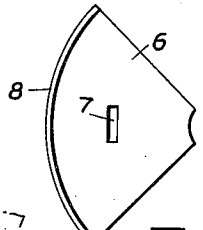


Fig. 7.

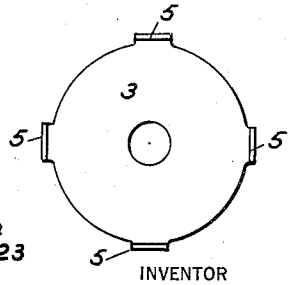
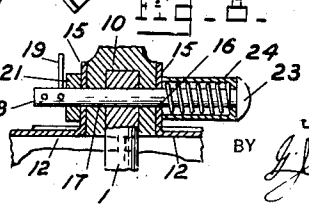


Fig. 8.



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UNITED STATES PATENT OFFICE

2,327,365

CONTAINER FOR BOMBS

John W. Moseman, Bethesda, Md.

Application June 14, 1941, Serial No. 398,021

7 Claims. (Cl. 102—2)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The invention described herein may be manufactured and used by or for the Government for governmental purposes, without the payment to me of any royalty thereon.

This invention relates to a container for incendiary or other relatively small bombs.

It is the object of this invention to provide convenient means of storing and releasing a multiplicity of small bombs, such as incendiaries, chemical bombs and the like, which are desirably dispersed over a considerable area.

The specific nature of the invention as well as other objects and advantages thereof will clearly appear from a description of a preferred embodiment as shown in the accompanying drawing in which:

Figure 1 is a side elevation of the carrier with the bombs supported therein.

Figure 2 is a top plan view of Figure 1.

Figure 3 is a cross section on the line 3—3 of Figure 1 with the position the bombs may occupy indicated by dotted circles.

Figure 4 is a longitudinal section on the line 4—4 of Figure 2.

Figure 5 is a longitudinal section on the line 5—5 of Figure 3.

Figure 6 is a plan view of one of the segmental base cover sections.

Figure 7 is a plan view of the lock plate of the base structure.

Figure 8 is a fragmentary section of a modified form of arming pin. The view is similar to that of Figure 4.

Figure 9 is an exploded view showing substantially the position which will be occupied by the parts after release of the arming pin.

Figure 10 is a section showing a modified form of base construction.

Referring to the drawing by characters of reference, there is shown a carrier for a plurality of relatively small bombs comprising a central rod 1 provided on one end with a washer 2 and a lock plate 3 secured by a nut 4 or other convenient securing means. The lock plate is provided on its periphery with equally spaced fingers 5 turned upwardly to engage the base covers 6. A finger is provided for each of the segmental base covers 6 and engages a slot 7 formed therein. Any desired number of base covers may be used and each represents a segment of the circle defined by the base of the assembly and is provided with an upstanding rim 8. The radius of the base circle is such that bombs of the desired diameter may be snugly engaged between the rod 1 and the rim 8. In the specific case shown five cylindrical bombs 9 may be engaged between the rod and the base covers. Obviously, bombs of various cross sectional shapes may be so engaged.

At the upper end of the rod a suspension lug 10 has been secured having an eye 11 or other means for securing the bomb in the plane. The upper end covers 12 are semi-circular in shape and similarly to the base covers are provided with rims 13 engaging the ends of the bombs 9. Each of the covers 12 is provided on its upper surface with a cleat 14 engaging the upper surface of the other cover to assist in maintaining proper alignment of the covers. The covers are provided with upwardly extending members 15 engaging the suspension lug and having holes 16 in register with a bore 17 formed in the suspension lug 10.

An arming pin 18 is inserted through the holes 16 and 17 and retained therein by engagement with an arming wire 19 adapted to be secured in known manner to the structure of the aeroplane. The arming pin is formed with a shoulder 20 of larger diameter than the hole 16 so that prior to drawing out the arming wire, the end covers are rigidly held to the suspension lug by engagement between the shoulder and the arming wire. Preferably a washer or spacer 21 is used between the arming wire and the hole in the member 15 on the end cover. A spring 22 is confined between the head 23 of the arming pin and the member 15 and serves to withdraw the arming pin when it has been released by withdrawal of the arming wire from the hole in the opposite end of the pin.

In an alternative construction the function of the shoulder 20 is fulfilled by a housing 24 confined between the head of the pin and the member 15. Either of these alternatives accomplishes a rigid securement of the end covers to the suspension lug and obviates the possibility that the covers might be forced apart against spring pressure and one or more bombs released if the device were carelessly handled.

The device is preferably employed in the following manner. The required number of individual bombs are secured between the covers and the carrier suspended from the bomb racks by means of the suspension lug. The arming wire is attached to some fixed part of the bomb rack structure. Upon release of the carrier the arming wire being secured to the rack will be withdrawn from the pin permitting the pin to be ejected by the spring and releasing the upper end covers. The individual bombs are then free

to fall outwardly at their upper ends, rocking the base covers upon the fingers to release the lower ends of the bombs. In case it is desired to drop the group of bombs as a unit the arming wire may be released from the bomb rack and dropped with the carrier.

It is further contemplated that the bombs 9 themselves may be formed as in Fig. 10 with recesses 25 in their bases for engagement with the fingers 5 obviating the necessity of using the base covers 6. The bombs may be of any desired cross section—circular, hexagonal, segmental or the like which will permit a group to be maintained about the central rod.

I claim:

1. A bomb carrier comprising opposed cup-shaped receiving means, means centrally associated with said receiving means to hold the same with their rims in spaced relation for accommodating a bomb load therebetween, a releasable connection between said holding means and one of said receiving means, and an operating member for remote actuation of said releasable connection.

2. A bomb carrier comprising opposed cup-shaped receiving means, one of said receiving means comprising a plurality of separable sections, means centrally associated with said receiving means to hold the same in spaced relation for the accommodation of a bomb load therebetween, a releasable connection between said holding means and the said separable sections, and an operating member for remote actuation of said releasable connection.

3. A multiple bomb comprising a plurality of individual bombs, a spacing member having associated therewith cup-shaped bomb receiving means engaging one end of each bomb, cup-shaped bomb retaining means also associated with said spacing member in opposition to and spaced from said receiving means to engage the bombs at their ends opposite to those engaged by said receiving means, a releasable connection between the spacing member and the retaining means, an operating member for remote actuation of said releasable connection and a suspension member on said spacing means for suspending the assembly.

4. A bomb carrier comprising opposed cup-shaped receiving means adapted to engage the opposite ends of bombs, means centrally associated with said receiving means to hold the same in spaced relation for the accommodation of bombs therebetween, a releasable connection between said holding means and one of said receiving means, an operating member for remote actuation of said releasable connection and a suspension member on the holding means by which the carrier may be suspended.

5. A bomb carrier comprising a central member, cup-shaped bomb receiving means on the central member and spaced thereby, cup-shaped bomb retaining means associated with said central member in opposition to said receiving means, a releasable connection between the bomb retaining means and the central member, and an operating member for remote actuation of said releasable connection.

6. A bomb carrier comprising a central member, a plate on the central member having cup-shaped bomb receiving means associated therewith, cup-shaped bomb retaining means associated with the central member in opposition to and spaced from said receiving means for the accommodation of a plurality of bombs, a releasable connection between said retaining means and the central member, and an operating member for remote actuation of said releasable connection.

7. A bomb carrier comprising a central member, a plate on the central memebr having a plurality of upturned fingers thereon, bomb receiving means comprising a cup-shaped unit separable into a plurality of sections each adapted to pivot upon one of the upturned fingers, cup-shaped bomb retaining means associated with the central member in opposition to and spaced from said receiving means for the accommodation of a plurality of bombs, a releasable connection between said retaining means and the central member, and an operating member for remote actuation of said releasable connection.

JOHN W. MOSEMAN.