Aug. 31, 1943. H. L. HUNT 2,328,277

BOMB

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Fig. 1.

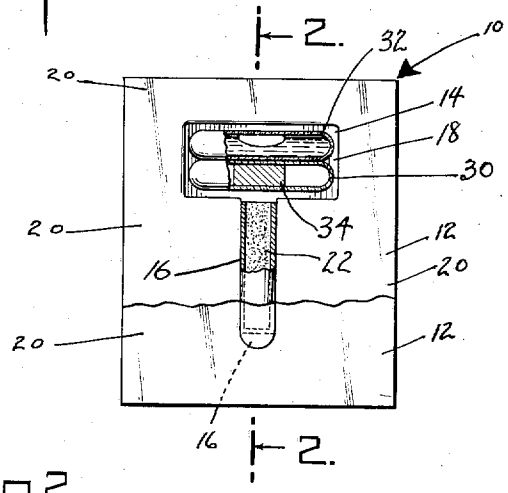


Fig. 2.

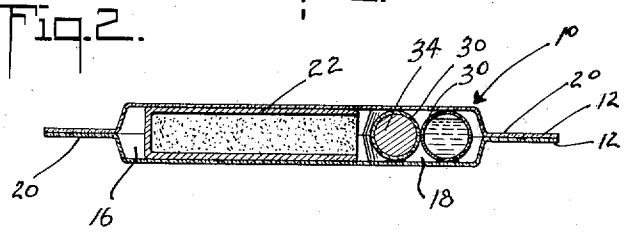
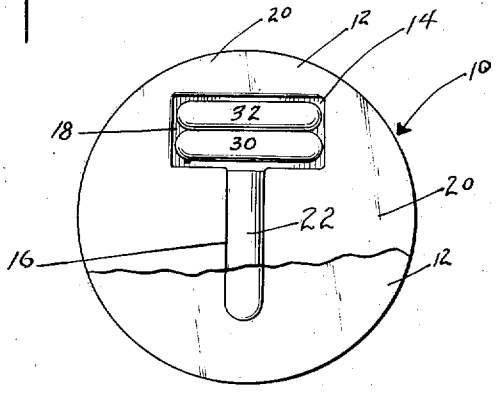


Fig. 3.



INVENTOR
HAROLD LYONS HUNT
BY
Schaines and Liberman
ATTORNEYS

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Harold Lyons Hunt, New York, N. Y.

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4 Claims. (Cl. 102—8)

My invention relates generally to bombs and in particular to bombs of the type which are adapted to be detonated upon the application of a destructive force thereto, and is in part a continuation of my co-pending application Serial No. 361,822, filed October 19, 1940, entitled "Primer."

The main object of my invention is the provision of a bomb which comprises a casing of easily deformable material, a compartment within the casing containing the explosive and a second compartment within the casing containing the primer or detonator.

Another object of my invention is the provision of a bomb which comprises a casing of easily deformable material having a pair of communicating compartments therein having the explosive in one compartment and the primer in the other compartment.

A further object of my invention is the provision of a bomb having a compartment portion and a wing portion.

A further object of my invention is the provision of a bomb which comprises a pair of cooperating members, each of which has a flat portion and also a dished or recessed portion therein which recesses cooperate to define a compartment, and the flat portions cooperate to define wing portions.

Other and further objects of my invention will be obvious and still others will be pointed out below in connection with the following description of an illustrative embodiment.

In the drawing annexed hereto, forming a part hereof.

Figure 1 is a top plan view of one form of device constructed according to and embodying my invention, the top portion being partly broken away to show details of assembly;

Fig. 2 is a section on the line 2—2 of Fig. 1; and

Fig. 3 is a view similar to Fig. 1 of a modified form of device also constructed according to and embodying my invention.

My new and improved device, indicated generally by reference numeral 10, comprises a pair of cooperating members 12, 12 which may preferably be of light, thin and explosive material, as nitrated cellulose or similar material. Blanks 12, 12 may also preferably be transparent, for reasons which will be explained below.

Each blank 12 is originally flat, and is die pressed or otherwise treated, as by molding, to form a T-shaped recess 14 therein spaced inwardly of the edges thereof, which recess has a pair of trenches 16, 18 in communication with each other, trench 16 constituting the stem of the T, and trench 18, at right angles to trench 16, constituting the head thereof. Recess 14 is formed centrally of each blank 12, and the wing portions 20 beyond the recess extend laterally out therefrom all around the recess. Each blank is identical with every other blank, and its formation as above described is relatively simple.

In assembling the bomb in accordance with my invention, a cylindrical cartridge of blasting powder 22 is disposed within the stem trench 16. The dimensions of the cartridge and trench are such that half of the cartridge extends into and is received within the stem trench 16, the other half extending out therefrom. If desired, a suitable adhesive, as acetone, may be employed to secure the cartridge 22 against accidental displacement from the trench 16, although, if carefully dimensioned, the cartridge may be friction wedged into the trench. In trench 18, I dispose the primer, or charge detonator, which comprises a pair of sealed ampoules 30, 32. Ampoule 30 contains a piece of potassium, and is secured at the side of trench 18 adjacent cartridge 22; ampoule 32 contains water and is disposed within trench 18 in side by side relationship to the potassium containing ampoule. A suitable adhesive may be employed to keep these ampoules in place within trench 18. Ampoules are made of light, thin and easily frangible material, and when any destructive force is applied thereto, they will break and the potassium will ignite in the presence of the water to ignite the explosive charge in cartridge 22.

In assembling the bomb of my invention, the cartridge and ampoules are disposed as above, within one member 12, and the other, similarly recessed member 12, disposed on top thereof and secured thereto by a suitable adhesive, as acetone or the like, the three containers being secured within the recess 14 defined by the opposing trenches 16, 18 formed in each member, the wing portions 20, 20 lying flatly against each other.

Members 12, 12 are preferably transparent, and their lack of color will enable them to blend with almost any background. The bomb as a unit is light and when dropped or sown from any substantial height, will descend gently because of the wing portions 20, 20, rather than drop abruptly. Thus is minimized the danger of premature detonation. My bomb is adapted for use on the ground, where it will be denoted by the weight of a person treading thereon or a vehicle passing thereover. The nitrated cellulose and the glass ampoules in thin sections has no great strength

and the application of relatively little weight will cause their crushing, so as to permit intermingling of the contents with explosion of the cartridge charge.

Having now described my invention, what I desire to claim and secure by Letters Patent is:

1. A device of the character described comprising a casing of explosive material, easily deformable, the casing comprising a pair of cooperating members, a portion of each of which is recessed to define a compartment therewithin, a plurality of containers within the compartment, certain of which contain an explosive charge, and others of which contain a charge detonator, the remainder of the members beyond the compartment lying flatly against each other to define a wing portion extending all around the device.

2. A device as in claim 1 in which the compartment has two trenches therein, one containing an explosive and the other contains a detonator, the compartments lying in one plane and being in communication with one another, whereby the contents will be explosively intermingled upon destructive deformation of the compartment.

3. A bomb comprising a casing of explosive material, easily deformable, the casing comprising a pair of cooperating members, a portion of each of which is dished outwardly, forming a primer containing compartment and an explosive charge-containing compartment adjacent the first compartment and in communication therewith, and a flat lying wing portion surrounding the compartments.

4. A bomb having a compartment therewithin containing the explosive and detonator, and a flat lying wing portion surrounding the compartment, the bomb comprising a pair of opposing members of explosive, easily deformable material, each of which is centrally recessed to define the compartment, portions of the opposing members extending laterally of the device to define the wings.

H. LYONS HUNT.