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H. F. WHEELER

2,483,164

TOY BOMBER

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FIG. 1.

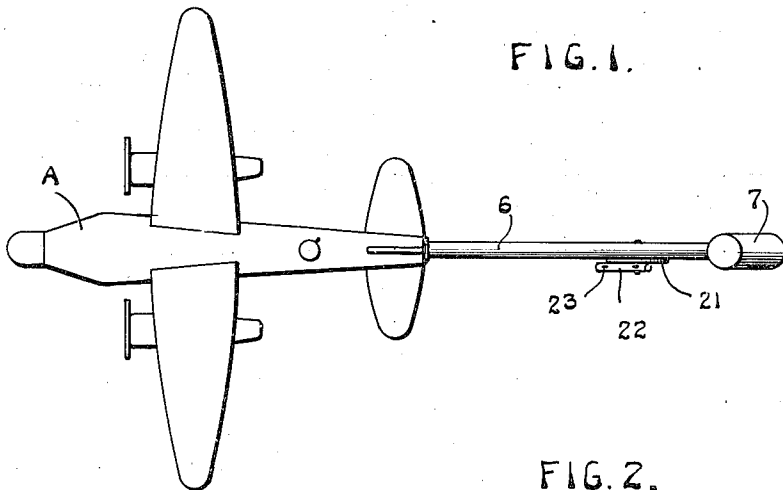


FIG. 2.

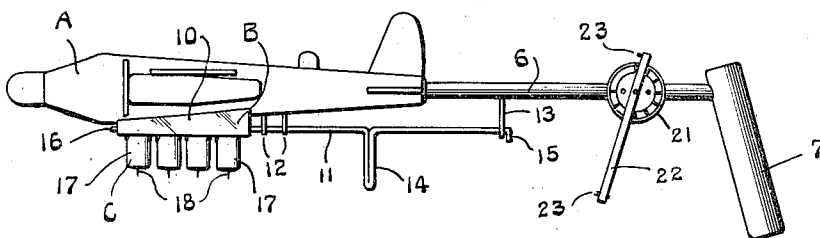


FIG. 3.

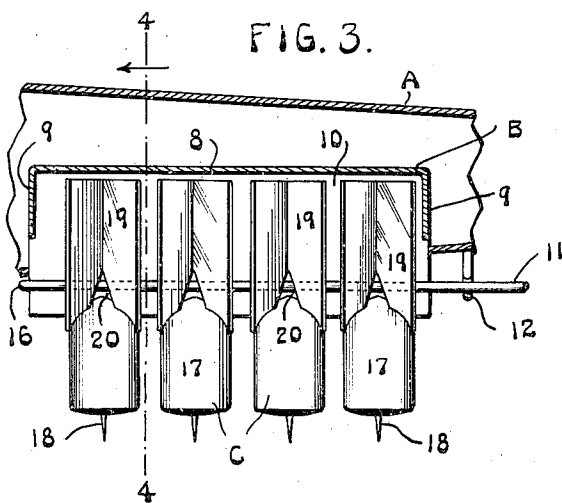


FIG. 4.

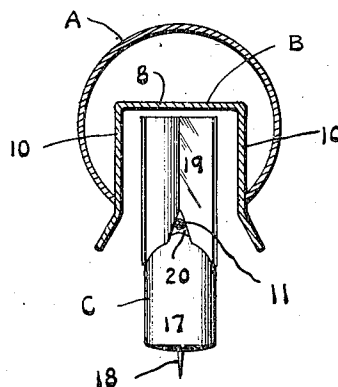
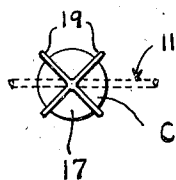


FIG. 5.



INVENTOR.
H. F. WHEELER
BY *Albert J. McCauley*
ATTORNEY.

UNITED STATES PATENT OFFICE

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TOY BOMBER

Henry F. Wheeler, Richmond Heights, Mo., assignor of one-half to A. Edward Gross, Richmond Heights, Mo.

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2 Claims. (Cl. 46-1)

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This invention relates to toy bombers wherein objects which may be regarded as bombs are dropped from a suitable holder. In the preferred form of the invention, the toy bombs are in the form of darts having pointed lower ends to be anchored in a target. However, other types of toy bombs may be employed in the new device.

An object of the invention is to produce a very simple and inexpensive means for anchoring and releasing the toy bombs.

Another object is to create extremely simple aiming conditions which enable the operator to exercise skill in aiming the bombs to a target. Separate and distinct details of this object include a simple sighting device to be adjusted in aiming at the target, and special conditions in releasing the toy bombs.

With the foregoing and other objects in view, the invention comprises the specific combination and arrangement of details herein shown and described to set forth one form of the invention. However, it is to be understood that the scope of this patent extends to variations and modifications described by the terms of claims hereunto appended.

Fig. 1 is a top view of a toy bomber embodying features of this invention.

Fig. 2 is a side view.

Fig. 3 is an enlarged section showing a magazine and toy bombs to be dropped therefrom.

Fig. 4 is a section on the line 4-4 in Fig. 3.

Fig. 5 is a top view of one of the toy bombs.

The general appearance of the toy may have any desired formation. The drawings show an airplane A provided with a magazine B open at the bottom to receive toy bombs C. As a handle for this toy bomber, I have shown a horizontal rod 6 extending rearwardly from the plane A and an elongated hand-receiving member 7 extending downwardly from said rod 6. The handle member 7 can be very readily grasped to firmly hold the toy during the successive steps of inserting, aiming and releasing the bombs, as will be hereinafter described.

The magazine B includes a top wall 8, end walls 9 and side walls 10, suitably anchored to the body of the plane A, said magazine being open at the bottom as shown in Figures 3 and 4. Any desired number of bombs may be detachably secured at the magazine, and this magazine may be of any desired shape. However, it preferably includes a suspension member to connect said bombs to the magazine. For example, a suspension member 11 may extend through the bombs, as shown in Figures 3 and 4. More specifically

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stated, this suspension member may be in the form of a simple horizontal wire 11 slidable in guides 12 and 13, which extend downwardly from the bottom of the plane A.

Details of the suspension device may include an operating member 14 extending downwardly from the horizontal portion of the wire 11 to receive fingers of the operator in imparting longitudinal movement to said wire 11, and a stop member 15 extending from the rear end of said wire. Study of Fig. 2 will show that the fixed guide 13 will cooperate with the extended members 14 and 15 to limit the longitudinal movements of the suspension member 11.

Attention is directed to an end 16 of the suspension member shown in Figures 2 and 3. This end 16 is movable in one direction to receive and anchor the bombs, and movable in the opposite direction to successively release the bombs.

Each bomb is preferably in the form of a dart having a relatively heavy body member 17, a pointed member 18 extending downwardly from said body member to be anchored in a target, and vertical fins 19 extending upwardly from said heavy body member 17. The lower end portions of the fins 19 are attached to said body member 17, and these fins are united at the axis of the dart. However, said fins are separated from the top central portion of the heavy body member 17 to provide a central opening 20 for the suspension member 11, as shown in Figures 3 and 4. Consequently, when the end 16 of the suspension member passes from an approximately central opening 20, the dart will be released in an approximately vertical condition, without undue tilting at the moment of release. This detail is desirable for reasonably accurate aiming conditions.

The simple aiming device herein shown comprises a graduated sight indicator 21 fixed to the rod 6, a pivoted sight carrier 22, and a pair of sights 23 extending from said carrier, as shown in Figures 1 and 2. As shown in Fig. 2, the inclined sighting member 22 is pivoted at a point in front of the handle 7, so as to provide for inspection and free selective pivotal adjustments of said inclined member 22 relative to the indicator 21 when the toy is grasped by said handle. The sighting device is conveniently located between the rear of the plane and the handle 7, so the operator can readily use one hand to firmly support the device, while using fingers of the other hand to adjust the sights and release the bombs. This detail provides for aiming at a target at a known distance below the toy, and

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leads to interesting adjustments when the device is operated by only one person, or when several are engaged in a contest.

In releasing the bombs, the suspension member 11 is pulled to the right from the position shown in Figures 2 and 3. During an initial stage of this movement, all of the loosely supported bombs may move laterally with said suspension member. However, the bomb at the extreme right in Fig. 3 will contact with a member 9 which serves as a stop, or abutment, to stop said bomb, and as the longitudinal movement of the suspension member is continued, the loose bombs will be crowded into contact with each other. This action is followed by successive release of the bombs when the free end 16 of the traveling suspension member passes from said bombs.

The fins 19 provide vertical guiding faces converging toward the central openings 20 which receive the suspension member 11, as shown in Figures 3, 4 and 5. Consequently, the free end 16 of said suspension member can be readily inserted through the relatively large transverse openings 20. During this operation, the toy is usually held in an inverted position so as to locate the upper ends of the fins 19 in contact with the wall 8 which lies adjacent to the bombs. In other words, when the device is inverted, a bomb can be very quickly attached by merely locating its fins 19 in contact with the wall 8, and then inserting the suspension rod 11 between any converging faces of the fins 19. It may be important to observe that the top wall 8 of the magazine is parallel with the extended end portion of the slidable suspension member 11. Consequently, when the toy is inverted, this parallel top wall 8 forms a seat onto which the bombs are placed in inverted positions, thereby locating their transverse openings 20 in the plane of the suspension member 11 which is to be inserted through said openings.

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I claim:

1. A toy bomber comprising a magazine open at the bottom, a plurality of toy bombs to be dropped from said magazine, each of said bombs having a transverse opening, and a slidable suspension member having an extended end portion movable into and out of the transverse openings to receive and release the toy bombs, said magazine having a top wall parallel with said extended end portion, said parallel top wall being adjacent to the upper ends of the toy bombs in the magazine, so as to form a seat for said ends when the toy is inverted, thereby locating said transverse openings in the plane of said extended end portion of the slidable suspension member.

2. A toy bomber comprising a support, a plurality of toy bombs to be dropped from said support, each of said toy bombs having a body member and fins extending upwardly therefrom, said fins being separated from the central top portion of said body member to form a central opening between said fins and body member, and a suspension member having an extended end portion movable into and out of the central openings to receive and release the bombs, said fins being provided with vertical side faces converging toward the central openings to direct said extended end portion into said central openings.

HENRY F. WHEELER.

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