

Aug. 6, 1946.

P. J. MARTIN
TOY BOMBER AIRPLANE
Filed Nov. 8, 1944

2,405,313

FIG. 1.

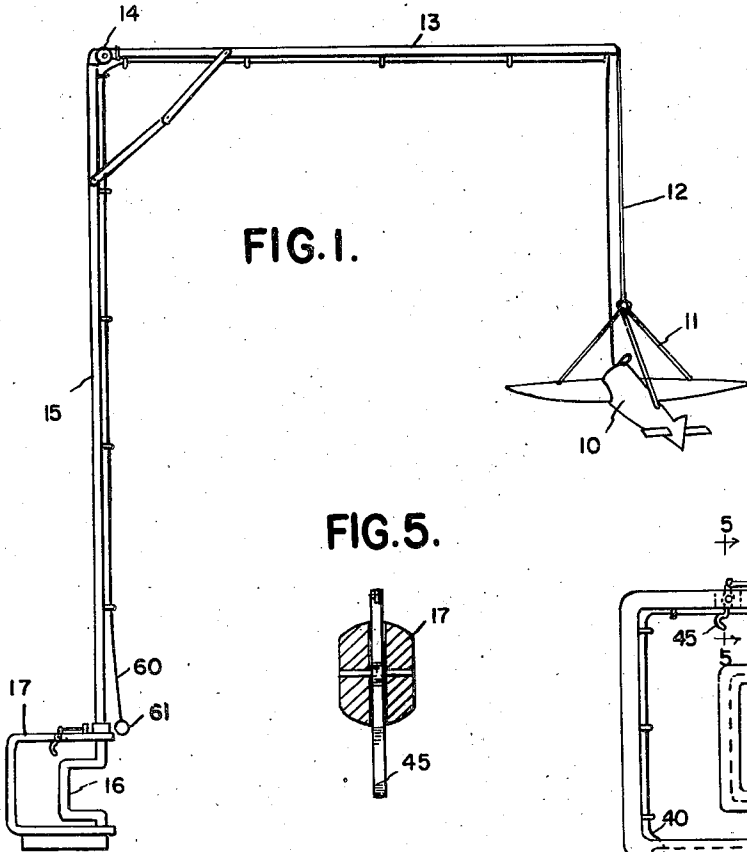


FIG. 2.

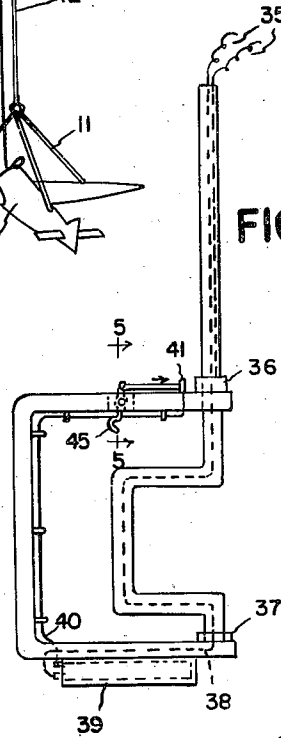


FIG. 5.

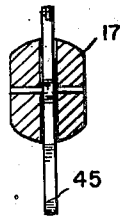


FIG. 4.

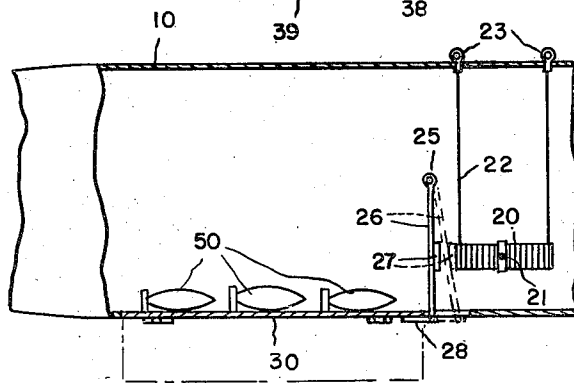
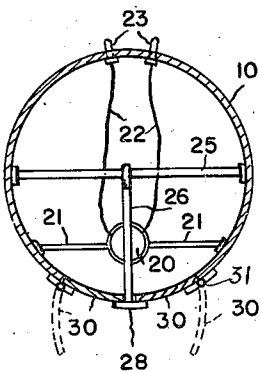


FIG. 3.

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2,405,313

TOY BOMBER AIRPLANE

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Application November 8, 1944, Serial No. 562,444

3 Claims. (Cl. 46-77)

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The present invention relates to mechanical toys and more specifically to a toy bomber airplane.

Among the objects of the invention is a toy airplane having means for simulating flight.

Another object is a toy airplane of the bomber type with means for simulating flight and means under control of the operator for dropping missiles representing bombs while the plane is in its simulated flight.

Other objects will readily occur to those skilled in the art upon reference to the following description and the accompanying drawing in which

Figure 1 is a view in elevation of the airplane and flight means.

Figure 2 is an enlarged view of a portion of Figure 1.

Figure 3 is a longitudinal sectional view of the mid section of the airplane showing the bomb release means.

Figure 4 is a cross sectional view of the airplane showing another view of the bomb release.

Figure 5 is a section on line 5-5 of Figure 2.

In the drawing, the airplane is shown at 10 as being supported by a suitable halter 11 at the end of a line 12 depending from a horizontal arm 13 preferably hinged as at 14 to an upright mast or other vertical support 15.

This upright member terminates in a crank portion 16 mounted for rotation in a suitable grip member 17.

Within the airplane 10 is mounted an electromagnet 20, supported in any suitable fashion as by the laterally projecting rods 21 fixed in the sidewalls, to which magnet are attached the lead wires 22 extending to suitable connecting means or binding posts 23 in the wall of the airplane.

Also mounted within the airplane as by hanging loosely on the cross rod 25 is a vertical rod 26 carrying an armature 27 opposite the end of magnet 20 and also carrying a small plate 28 extending at right angles to the rod and adapted to extend under the doors 30 hinged as at 31 in the bottom of the airplane.

Extending in suitable fashion from posts 23 through or along harness 11, line 12, arm 13, and mast 15 to the grip member 17 are suitable electric conductors 35, one of which is connected to a metallic ring 36 fixed to mast 15 just above grip member 17 and the other of which extends through the crank 16 to a second metal ring or ferrule 37 at the bottom of the crank.

The ring 37 through a suitable wiping contact is connected through a lead 38 to one pole of a small dry cell 39 carried by the grip member 17.

Attached to the other pole of the cell 39 is a wire 40 leading to a sliding contact 41 movable

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into and out of contact with ring 36 by means of a trigger 45 pivoted in the upper arm of the grip member 17.

Completing the battery circuit through the magnet 20 will of course cause the armature 27 to be attracted, thereby pulling the plate 28 from under doors 30 and allowing these to fall open and drop whatever missiles there may have been provided—for example, bombs 50.

It is intended that the toy and flight means described may be used as a game with objects such as imitation houses, bridges, etc., as objectives, the user causing the airplane to simulate flight in a circle by holding member 17 and rotating crank 16, endeavoring to actuate the bomb release at such time as to cause the bombs to fall upon the objective.

Instead of the electric release described in detail, a mechanical release may be used as is indicated by the cord 60 and pull ring 61.

Now having described the invention and the preferred embodiment thereof, it is to be understood that said invention is to be limited, not to the specific details herein set forth, but only by the scope of the claims which follow.

I claim:

1. A toy consisting of a toy airplane provided with bomb releasing means and with flight simulation means, said latter means comprising a mast having a horizontal arm at its upper end, means for suspending said airplane from the end of said arm, and means for rotating said mast and arm, said rotating means consisting of a grip member, and a crank mounted in rotative relation in said grip member, said crank being directly connected to said mast, and means actuated from said grip member for operating said bomb releasing means.

2. A toy consisting of a grip member adapted to be held stationary by an operator, a crank mounted for rotation in said grip member, a mast fixed to said crank and rotatable thereby, said mast having a laterally projecting arm, a toy bomber airplane suspended from said arm and provided with bomb releasing means, and means carried by said grip member for actuating said bomb releasing means.

3. A toy consisting of a grip member adapted to be held stationary by an operator, a crank mounted for rotation in said grip member, a mast fixed to said crank and rotatable thereby, said mast having a laterally projecting arm, a toy bomber airplane suspended from said arm and provided with electric bomb releasing means, and means carried by said grip member for energizing and thereby actuating said bomb releasing means.

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