Dec. 7, 1926. 1,610,093

T. G. HITT

TOY BOAT

Filed Dec. 23, 1925

Fig. 1.

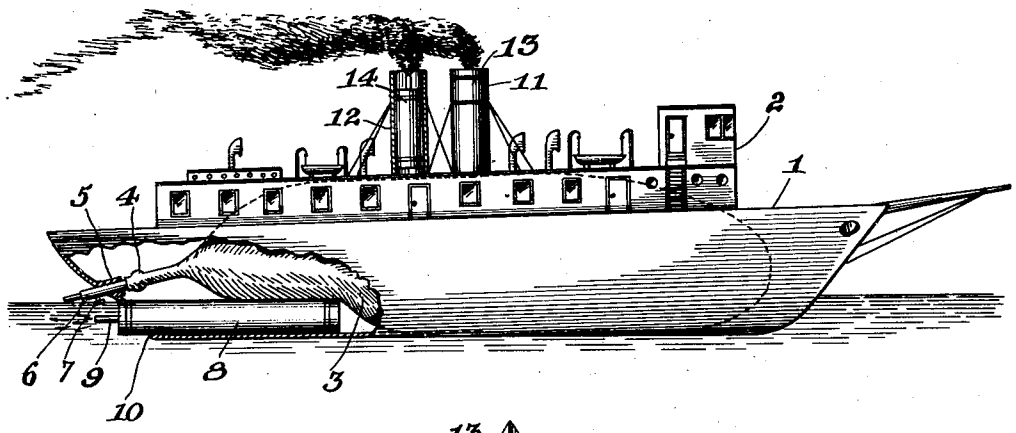
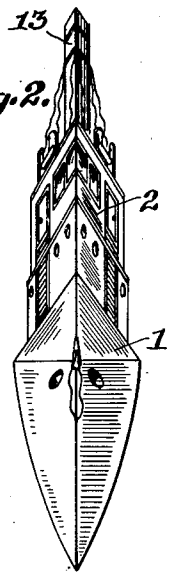


Fig. 2.



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UNITED STATES PATENT OFFICE.

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TOY BOAT.

Application filed December 23, 1925. Serial No. 77,318.

This invention relates to improvements in toy boats, particularly to a boat which may be constructed of any suitable material such as a foldable paraffine paper carton being adapted to receive a means for propelling the boat.

A further object of this invention is to provide an auxiliary means for maintaining buoyancy and a means for propelling the boat, consisting of a container having an explosive confined therein, preferably in the form of a piece of fireworks.

Another object of this invention is to provide means whereby smoke may be supplied for emission from the smoke stacks which may be provided in the construction of the toy boat.

Other objects of this invention will appear from the following detailed description of the device and as disclosed in the single sheet of drawings which is herewith made a part of this application.

In the drawings,

Fig. 1 illustrates a vertical elevational view of the toy boat in diagrammatic form showing a portion cut away disclosing the auxiliary means for increasing the buoyancy of the boat and the propelling means comprising a container having explosive material confined therein.

Fig. 2 illustrates the front elevational view of the toy boat in diagrammatic form in its collapsed and folded condition.

Numeral 1 designates the outer shell of the toy boat which may be made of any suitable material such as paraffine paper or the like and arranged to fold in any desirable manner.

Numeral 2 designates the superstructure of the boat which may be integrally connected with the main body portion 1 or otherwise, as desired.

The superstructure may preferably consist of features common to boats such as smoke stacks, wheel house and the like, formed of suitable material and designed to fold into convenient cartons, the balloon 3 may or may not be included within the carton previous to preparing and opening up the carton for receiving the containers having explosive material therein.

Numeral 3 designates a balloon suitably positioned within the boat hull and superstructure 1 and 2, the opening therefrom 4, extending rearwardly within the boat to an outlet opening 5, a suitable mouthpiece 6 may be attached to the balloon outlet, the mouthpiece 6 being preferably supplied with a valve 7 adapted to close and maintain the balloon in an inflated condition thereby providing a means for materially increasing the buoyancy of the toy boat. The balloon 3 may be included as an integral member of the toy boat or otherwise as may be desired.

As a prime means for propelling the boat a container 8 having an explosive therein preferably in the form of a piece of fireworks is positioned within the toy boat hull, the fuse portion 9 being adapted to extend exteriorly of the toy boat through a suitable opening therein as at 10.

As a means for providing a smoke effect from the smoke stacks 11 and 12, suitable pieces of firework 13 and 14, may be located within the stacks, the fuse being ignited in the usual manner as disclosed in Fig. 1.

In operation, this invention provides a toy boat having propelling means consisting of a container, an explosive therein, preferably of the smoke pot or piece of fireworks type, a suitable fuse for igniting, the explosive having been properly located within the toy boat hull, the fuse 9 is lighted before the boat is placed in the water.

The explosive container 8 is properly positioned within the hull of the toy boat with its fuse portion extending exteriorly thereof, either above, at the surface, or below the surface of the water, the pressure of escaping gas preventing the extinguishing of the fuse of the piece of fireworks, while under water. The explosive material will give a heavy line of smoke or sparks, according to the composition of the explosive and if the container is exploded rearwardly, of the boat beneath the water, bubbles of gas will find their way to the surface. It has been determined that the gas and smoke comprising the product of combustion of the composition contained within the piece of fireworks may exhaust, under the surface, at the surface, or above the surface of the water and function to propel the boat.

The composition of the explosive material used in the container adapted for the smoke stacks may function to produce a heavy line of smoke or otherwise as desired.

It is to be understood that the propelling means consisting of the explosive container in this invention, may be utilized in a toy boat with or without the auxiliary means of

increasing the buoyancy, such as the balloon 3, which obviously, on being inflated and held in that condition by means of the valve 7 or otherwise, will aid materially in maintaining the boat in a floating condition. Furthermore, by allowing the air to exhaust rearwardly from the balloon, additional means for propelling the boat may be obtained.

What I claim is:

1. In a toy boat, a container having a restricted outlet to the exterior of the boat and an explosive confined in the container, means for causing a delayed ignition of the explosive, an inflated balloon within the boat for maintaining buoyancy, the balloon having a mouthpiece extending through the rear of the boat supplied with a valve, a means for propelling the boat comprising a piece of fireworks suitably located within the body, an orifice for restricting and developing the escaping gas and smoke through an aperture in the boat, the gas and smoke being the product of combustion of the composition contained within the fire works piece, and adapted to act rearwardly of the boat thereby propelling the boat through the water.

2. In a toy boat, a container having a restricted outlet to the exterior of the boat and an explosive confined in the container, means for causing a delayed ignition of the explosive, an inflated balloon within the boat for maintaining buoyancy, the balloon having a mouthpiece extending through the rear of the boat and a valve, a means for propelling the boat comprising a piece of fireworks suitably located within the body, an orifice for restricting and developing the escaping gas and smoke through an aperture in the boat, the gas and smoke being the product of combustion of the composition contained within the fireworks piece, and adapted to act rearwardly of the boat thereby propelling the boat through the water, additional means for propelling the boat consisting of the exhaust of the air from the balloon toward the rear of the boat.

In testimony whereof I affix my signature.

THOMAS G. HITT.