June 19, 1928.

1,673,938

A. FABRIZIO

SALUTE

Filed May 2, 1927

FIG. 1

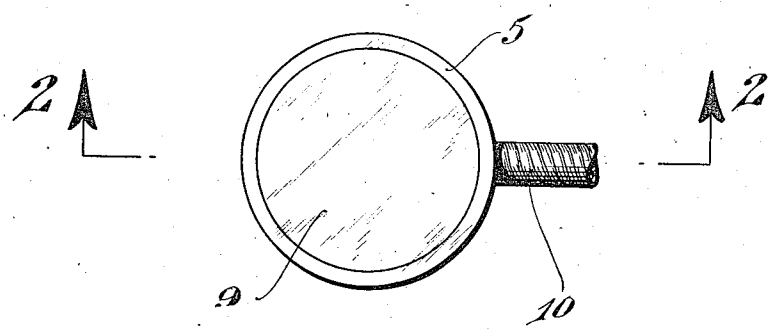
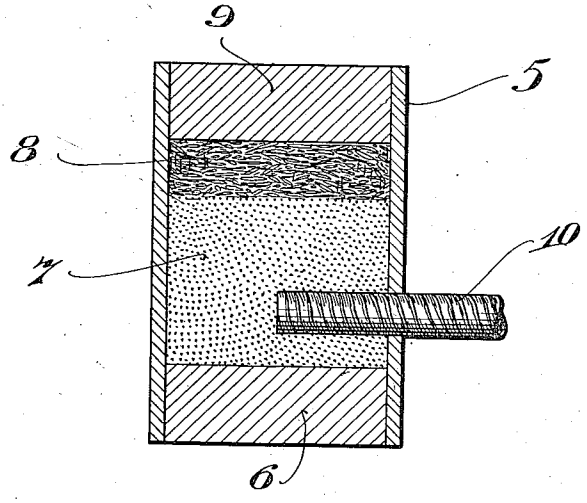


FIG. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

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SALUTE.

Application filed May 2, 1927. Serial No. 188,130.

My invention relates to fire crackers and more particularly to the type known as salutes and has for its principal object to provide a salute that is safer to manufacture and handle than those commonly in use.

In the conventional salute, the fuse is inserted through one end of the casing and the ends of the casing sealed with a compound or crimped to hold the contents in place. Both these operations produce dangerous working conditions and my invention is directed to obviating them.

In manufacturing the ordinary salute, it is impossible to solidly pack the explosive charge and be assured that it will remain packed until exploded. Another object of my invention is to provide means for sealing the casing whereby the explosive charge may be solidly packed and remain so until exploded.

In placing the casing closing means on top of the explosive, fine particles of the explosive are inclined to be forced from the casing and fly in the faces of the operators. A still further object of my invention is to provide means whereby the fine particles of explosive cannot fly from the casing and thus produce more healthful working conditions for the operators.

These objects, and other advantageous ends which will be described hereinafter, I attain in the following manner, reference being had to the accompanying drawing in which

Figure 1 is a top plan view of a preferred embodiment of my invention, and

Figure 2 a sectional view taken on line 2—2 of Figure 1.

Referring more in detail to the drawing, a casing 5 is made in any suitable manner, as by rolling a tube from a continuous piece of paper and cutting the tube into lengths. A disk 6 is securely glued in one end of casing 5 and a charge of explosive 7 placed in the casing on top of disk 6. A layer of smothering material 8, such as sawdust, is next placed on top of the explosive and a top disk 9 glued in the upper end of casing 5. A hole is then drilled in the side of casing 5 and a fuse 10 inserted in the hole.

Casing 5 is preferably of sufficient diameter, relatively to its height, to allow it to stand upright during the filling operations and the explosive charge may be measured into the casing without danger of it tipping over and wasting the explosive. Disks 6 and 9 may be made from thick cardboard so as to present sufficient surface to the inside of casing 5 tha they may be securely glued thereto.

It is well known that, when a plunger is forced into a cylinder, the air in the cylinder, must rush outwardly around the edges of the plunger and that it will carry with it dust or fine particles which, in the case of articles of this class, causes the fine particles of explosive to fly in the faces of the operators who are closing the casings. By placing a smothering layer on top of the explosive, the fine particles are prevented from being forced out of the casing when the closing disk is inserted.

Disk 9 may now be coated with glue and forced solidly against the contents of the casing without any danger of fine particles of explosive being blown into the face of the operator. When the glue sets, the salute will remain solidly packed until exploded. It is thus evident that a solidly packed salute may be obtained without the danger usually resulting from the operation of crimping or from pouring hot sealing material on top of the explosive. By inserting the fuse 10 through the side of casing 5, the ends of the salute are not weakened and a much louder explosion may be obtained than is possible from a salute made in the usual way. Further, a considerable saving in the cost of manufacture is effected.

While I have illustrated and described certain means of carrying my invention into effect, it will be readily understood that modifications might be made without departing from the spirit thereof, and hence I do not limit myself to the precise construction set forth, but consider that I am at liberty to make such changes and alterations as fairly come within the scope of the appended claims.

I claim:—

1. A salute comprising a tubular casing, a charge of explosive in the casing, means for closing the ends of the casing, and a fuse inserted through the side of the casing.

2. A salute comprising a tubular casing, a charge of explosive in the casing, paper disks glued in each end of the casing, and a fuse inserted through the side of the casing.

3. A salute comprising a tubular casing having a bottom, a charge of explosive in the casing, a smothering layer on the ex-

plosive, means closing the top of the casing, and a fuse inserted through the side of the casing.

4. A salute comprising an open ended tube, a disk glued in the bottom of the tube, charge of explosive in the tube, a layer of sawdust on the explosive, a disk glued in the top of the tube, and a fuse inserted through the side of the tube.

In testimony whereof I have signed my name to this specification.

ACHILLO FABRIZIO.