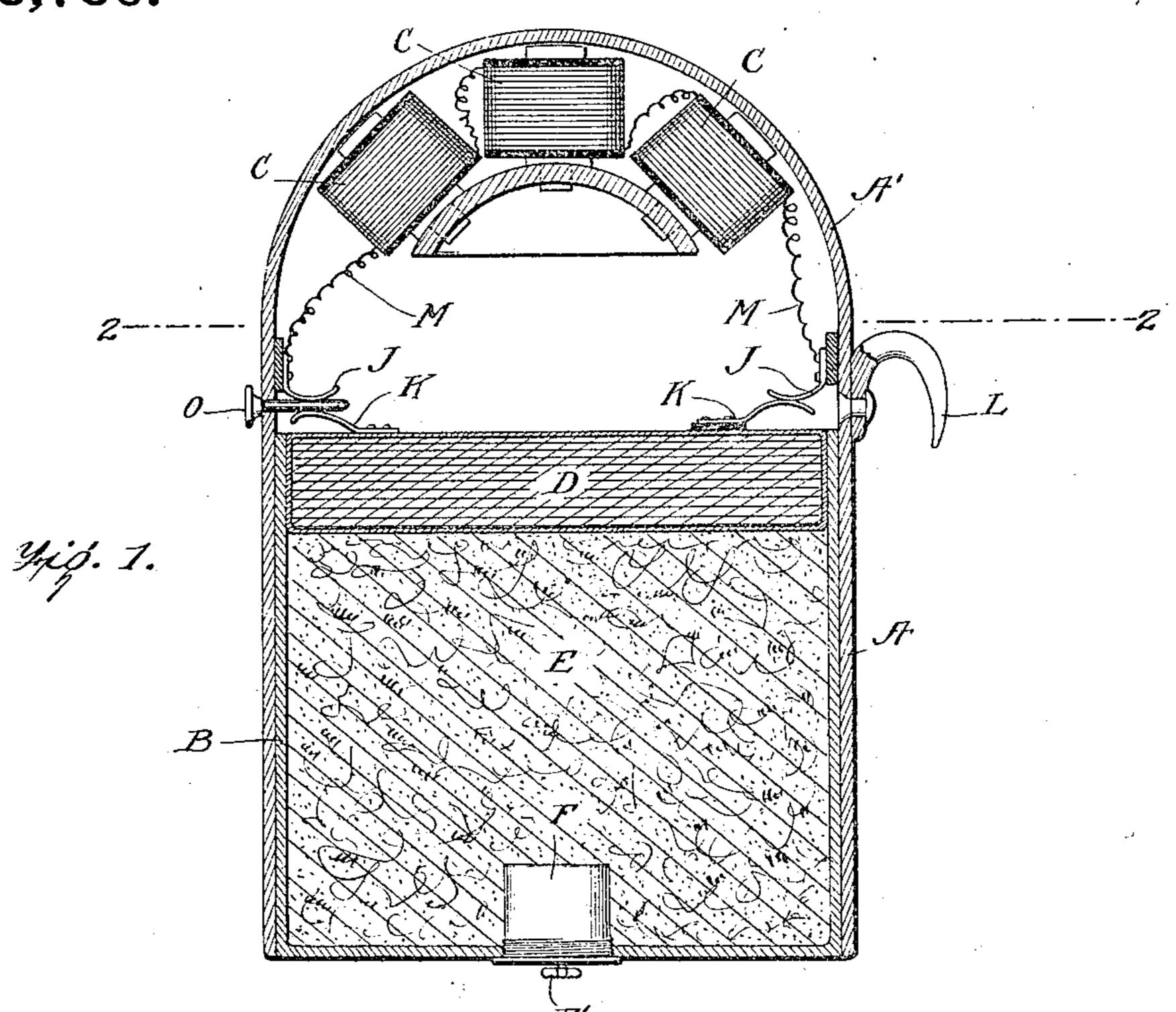
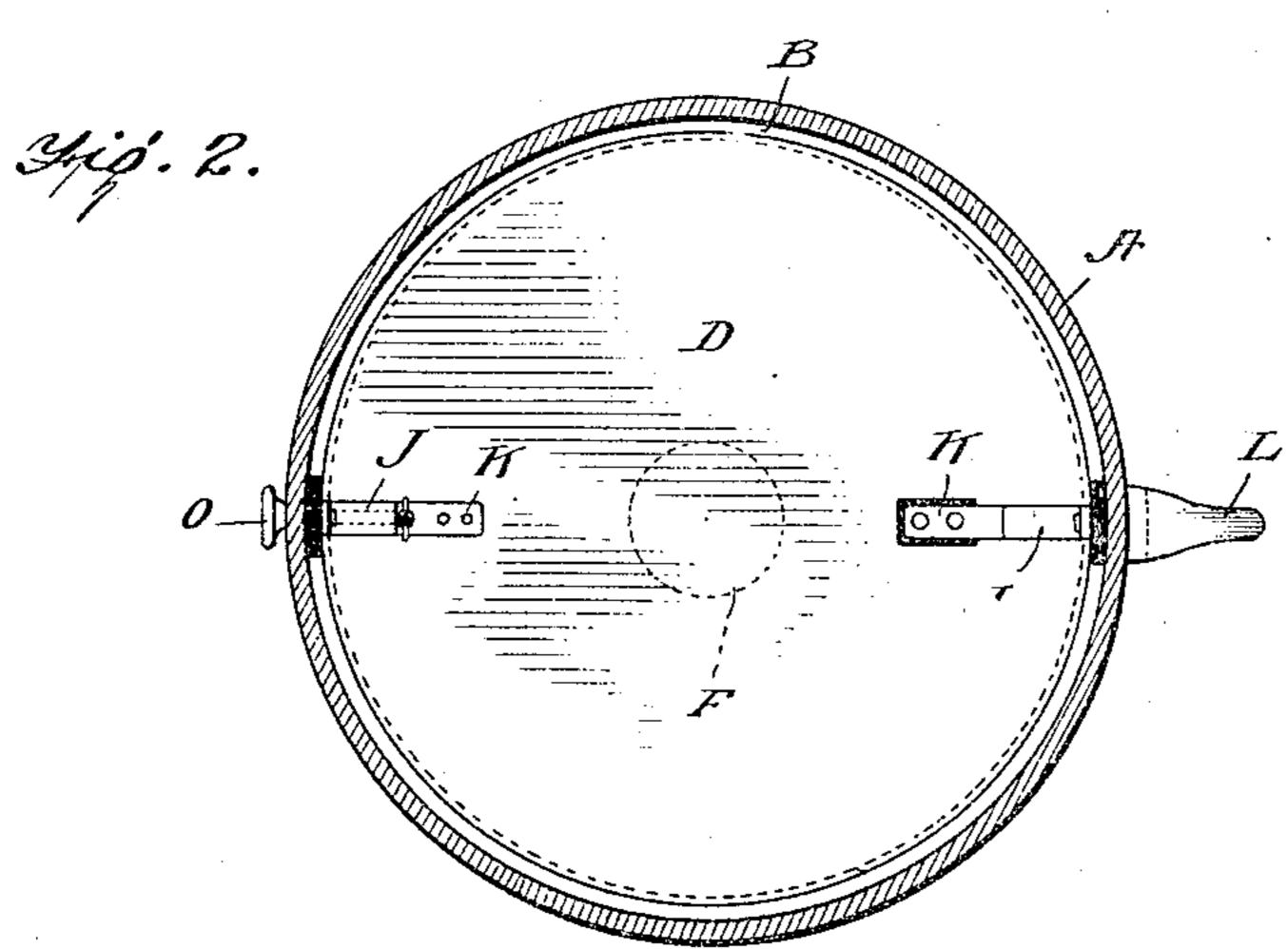
W. J. TURNBULL. TORPEDO OR BOMB. APPLICATION FILED JUNE 14, 1910.

983,786.

Patented Feb. 7, 1911





WITNESSES:

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UNITED STATES PATENT OFFICE.

WALTER J. TURNBULL, OF NEW ORLEANS, LOUISIANA.

TORPEDO OR BOMB.

983,786.

Specification of Letters Patent. . Patented Feb. 7, 1911.

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To all whom it may concern:

Be it known that I, Walter J. Turnbull, a citizen of the United States, and a resident of New Orleans, in the parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in Torpedoes or Bombs, of which the following is a specification.

This invention is an improvement in torpedoes, shells, bombs or the like designed
for use in blowing up vessels or other objects; and the invention has for an object to
provide a novel construction which may be
attached to the object to be blown up and
subsequently exploded; and the invention
consists in certain novel constructions and
combinations of parts as will be hereinafter
described and claimed.

In the drawing Figure 1 is a vertical lon-20 gitudinal section of a bomb embodying my invention. Fig. 2 is a cross section thereof.

By my invention I prefer to provide means by which the bomb may be attached to the object to be exploded, preferably by magnetic attraction and I also provide time fuse mechanism which will operate to explode the charge so that the person, vessel, or object placing the bomb in the desired position will have time to retreat and get out of danger before the bomb is exploded.

In the construction shown, I employ a shell A made of brass or other suitable material and having a semi-spherical top or dome Λ' within which is arranged magnets 35 C which may be energized by electrical connections with a battery D. The shell A is open at the bottom and in this open bottom of the shell A is inserted a casing B in the form of a shell of any suitable material and 40 within which is fitted the battery D which may be of any desired construction and has contact points K which may cooperate with contact points J on the shell A to form through the wires M the electrical connec-45 tion with the magnets C. The interior of the casing B below the battery D is filled with the explosive which may be gun powder, gun cotton or other explosive best suited to the particular conditions under 50 which the bomb is to be used.

Time fuse devices of any suitable construction may be provided at F and having a controlling key F; the said devices being carried by the casing B and usually at the bottom of the bomb as shown in Fig. 1.

The space within the dome like top of the

shell A affords an air chamber giving sufficent buoyancy to the bomb to keep the crown or head of the bomb in an upright position.

An insulating plug O is shown in Fig. 1 60 between one of the contacts J and its cooperating contact K and this plug may be pulled back when it is desired to complete the circuit and energize the magnets.

At L is shown a hook which may be used 65 to secure the bomb to the object when a mechanical connection is desired.

In operation the bomb is attached to the object to be destroyed, whether vessel or otherwise, by first pulling back the plug O so 70 that the batteries D will energize the magnets C, thus causing the bomb to adhere by magnetic attraction and by means of the time fuse devices F, the time for the explosion can be regulated as understood by those 75 skilled in this art. Manifestly the battery D may be utilized to fire or explode the charge E if so desired. The plug O is removed when the bomb is to be used and the hole is plugged up with a short water-tight 80 plug.

I claim:

1. A bomb substantially as herein described, comprising a casing open at its top, an explosive within the casing and time fuse 85

mechanism for exploding the charge, a battery in the upper open end of the casing and having contact points, a shell open at the bottom and fitting at the bottom over the casing and having a dome-shape top and provided with contact points movable into connection with the contact points of the battery, an insulator movable between two of said contact points, and a magnet within the dome-shape top of the shell, an air space being provided within the shell whereby to

give buoyancy to the bomb, substantially as set forth.

2. A bemb-comprising a casing having an open top and closed at the bottom, an explosive charge in the casing, a battery in the

casing above the explosive charge, a shell having a dome-shape top and open at the bottom and fitting over the casing, a magnet within the dome-shape top of the shell, electrical connections between the magnet and the battery and means for exploding the explosive charge, substantially as set forth.

WALTER J. TURNBULL.

Witnesses:

H. W. HILLE, Adam Lurch, Jr.