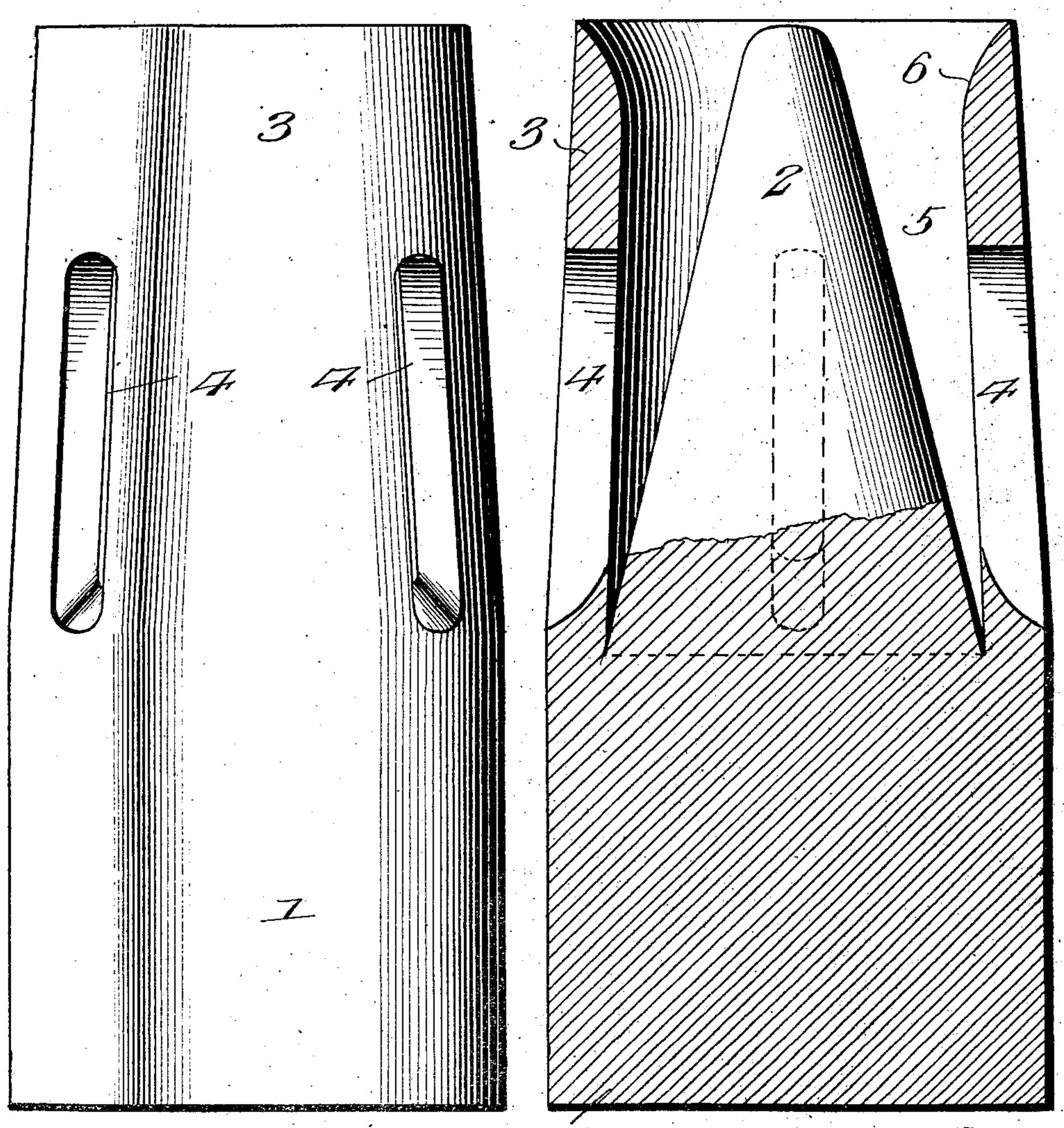
A. WAKEFIELD. PROJECTILE.

APPLICATION FILED NOV. 13, 1903.

NO MODEL.

Fig. Z.

Fig. 2.



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Witnesses Servan,

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ALBERT WAKEFIELD. OF BANNACK, MONTANA.

PROJECTILE.

SPECIFICATION forming part of Letters Patent No. 772,850, dated October 18, 1904.

Application filed November 13, 1903. Serial No. 181, 105. (No model.)

To all whom it may concern:

Be it known that I, Albert Wakefield, a citizen of the United States, residing at Bannack, in the county of Beaverhead and State 5 of Montana, have invented new and useful Improvements in Projectiles, of which the following is a specification.

My invention relates to new and useful improvements in projectiles especially adapted 10 for submarine purposes; and its object is to provide a device of this character having means whereby the same can be guided through water in a direct line subsequent to its discharge.

The invention consists in providing a projectile having a substantially conical end which is inclosed by an integral tapered sleeve having a desired number of slots therein.

The invention also consists in the construc-20 tion and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings, Figure 1 is a side elevation of the projectile. Fig. 2 is a section

25 therethrough.

Referring to the figures by numerals of reference, 1 is the cylindrical body of a projectile having a substantially conical extension 2 formed integral therewith and extending 30 from the center of one end thereof. This extension is inclosed by a tapered sleeve 3, the outer faces of which are flush with the outer faces of the body 1, and the sleeve has a series of longitudinally-extending slots 4 there-35 in which communicate with the compartment 5, formed between the sleeve and the extension. The inner wall of the sleeve is convexed at its outer end, as shown at 6.

When the projectile is discharged, water 40 will pass into the open end of the sleeve 3 and will flow outward through the slots 4, and as the pressure will be the same at all sides of

the extension 2 it will be understood that said extension will move straight forward in its course and will be unaffected by the water 45

contacted thereby.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without 5° departing from the spirit of the invention, and I therefore reserve the right to make such alterations as may fairly fall within the scope of my invention.

Having thus fully described the invention, 55

what is claimed as new is-

1. A projectile having an integral extension at one end thereof, and an apertured sleeve integral with the projectile and inclosing the extension, said sleeve being tapered toward 60 its outer end.

2. A projectile having a tapered extension at one end thereof, and a slotted sleeve integral with the projectile and inclosing said extension.

3. A projectile having a tapered extension at one end thereof and integral therewith, and a longitudinally-slotted sleeve integral with the projectile and inclosing the extension, said sleeve being tapered toward its outer end. 7°

4. A projectile formed in a single piece of metal and comprising a body, a tapered extension centrally arranged upon one end thereof and integral therewith, and a longitudinally-slotted sleeve integral with the 75 body and inclosing the extension, said sleeve being tapered toward its outer end and having its inner wall convexed at said end.

In testimony whereof I affix my signature in

presence of two witnesses.

ALBERT WAKEFIELD.

Witnesses:
WALTER E. LLOYD, FIELDING L. GRAVES.