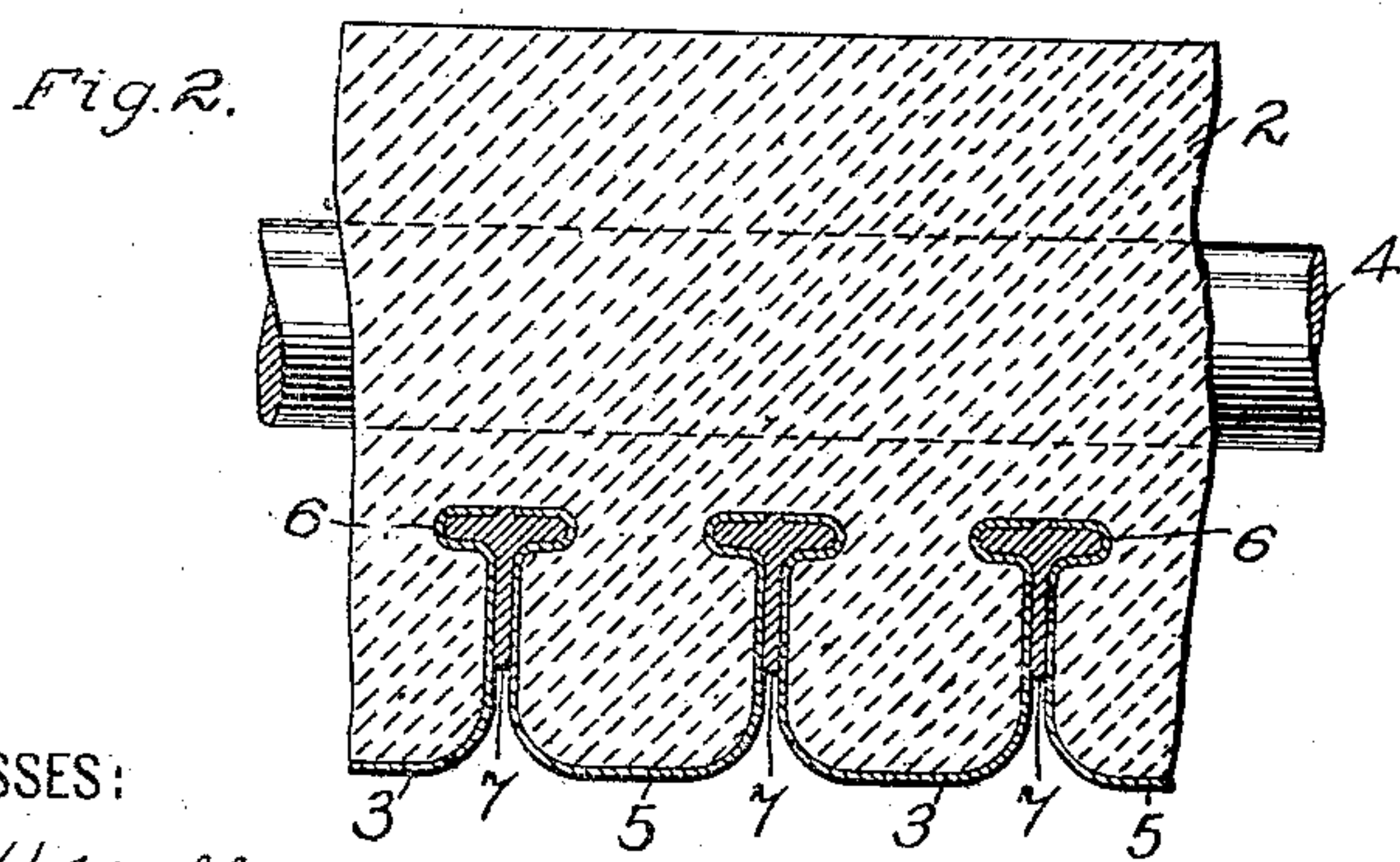
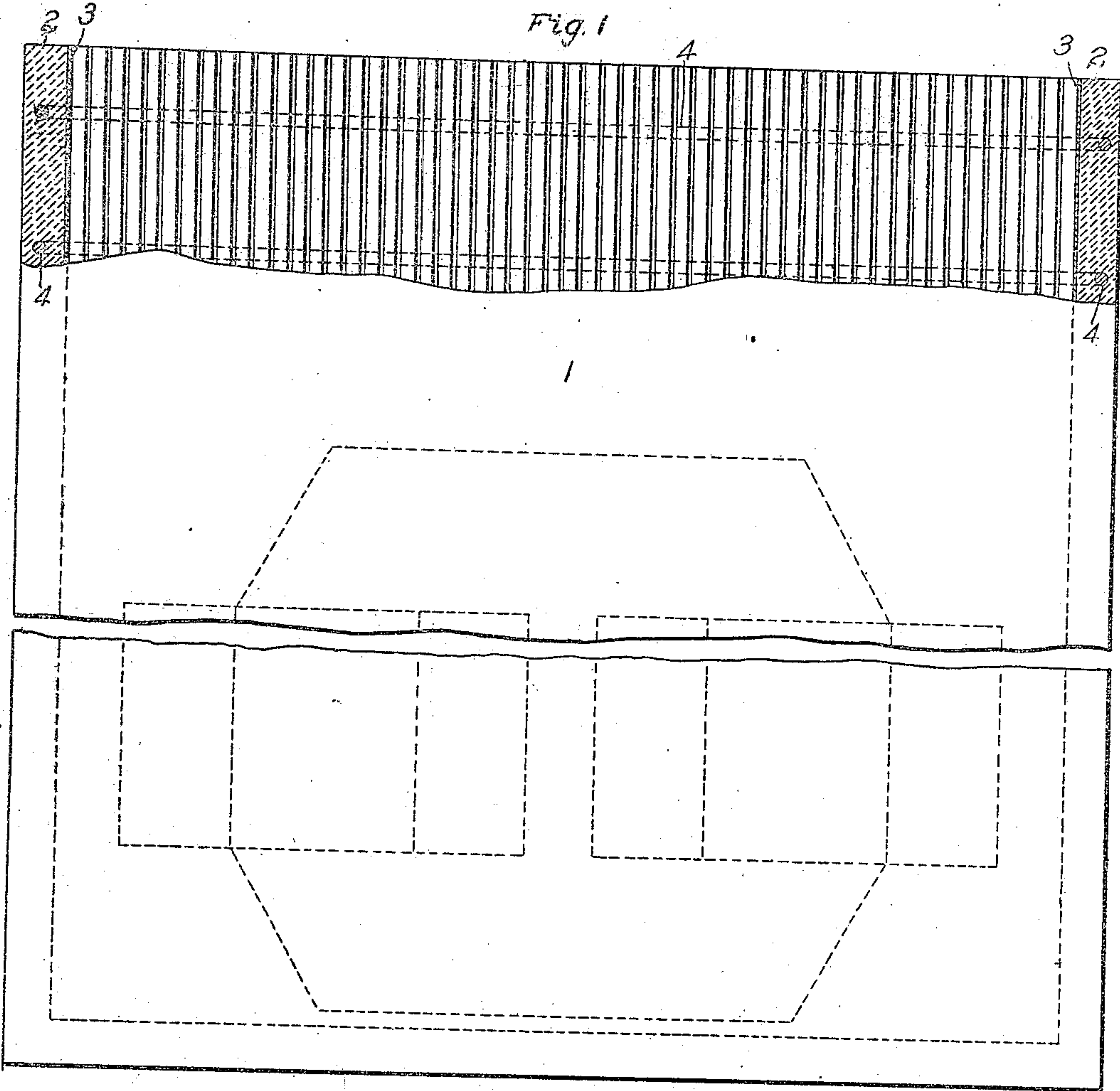


H. B. SMITH.
 MOLDED RECEPTACLE.
 APPLICATION FILED JAN. 5, 1907.

915,048.

Patented Mar. 9, 1909.



WITNESSES:

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MOLDED RECEPTACLE.

No. 915,048.

Specification of Letters Patent.

Patented March 9, 1909.

Original application filed September 4, 1906, Serial No. 333,115. Divided and this application filed January 5, 1907, Serial No. 350,952.

To all whom it may concern:

Be it known that I, HAROLD B. SMITH, a citizen of the United States, and a resident of Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Molded Receptacles, of which the following is a specification, this being a division of my application, Serial No. 333,115, filed September 4, 1906.

My invention relates to tanks or receptacles which are constructed of concrete or other molded material, and has special reference to inclosing casings for fluid-insulated electric apparatus.

The object of my invention is to provide an inclosing casing or tank, of an improved and economical construction, that shall be adapted to contain an insulating fluid, such as oil.

According to prior practice, boiler iron or steel inclosing tanks have usually been employed to contain relatively high-voltage, oil-immersed electrical transformers, and these tanks were sometimes disposed in cells constructed of brick or concrete. The expense of a construction of this kind is considerable and the tank construction of my present invention, according to which the inclosing tank or casing itself is constructed of concrete or a similar substance which may be rendered oil-tight by the application of a suitable fluid-resisting coating or by employing a sheet metal lining, may advantageously be employed in lieu thereof.

Figure 1 of the accompanying drawings is a partially sectional elevation, and Fig. 2 is a plan view, in section, of a portion of an inclosing tank constructed in accordance with my invention.

Referring to the drawings, the tank 1 comprises walls 2 of material thickness which are constructed of concrete or similar molded material and a sheet metal lining 3. The side walls of the tank are preferably reinforced by metal rods 4 which are placed in position in a well known manner when the walls are in process of construction.

It may be found desirable to coat the interior of the tank with varnish or other suitable material which will prevent the oil or other fluid contained in the tank from escaping through the pores of the structure.

Inclosing tanks which are adapted for use

with transformers or other electric apparatus are sometimes subjected to external fluid-pressure strains such as are imposed when vacuum is produced within, and the form of sheet metal lining illustrated is specially adapted to resist such strains. The lining is built up of U-shaped strips 5, of sheet metal having lateral projections 6 which prevent the lining from separating from the concrete, the joint 7 between the strips being sealed with solder or otherwise.

Although I have illustrated a substantial rectangular tank, my invention is not restricted thereto and the size and shape are governed merely by the service for which they are intended.

I claim as my invention:

1. A concrete inclosing tank or box for electrical apparatus having a sectional fluid-resisting lining provided with interlocked projections embedded in the concrete.

2. A concrete inclosing tank or box for electrical apparatus having a fluid-resisting lining composed of sections the ends of which project laterally into recesses in the concrete and are anchored therein.

3. A concrete inclosing tank or box for electrical apparatus having a sectional sheet metal lining provided with lateral projections embedded in the concrete and cemented together.

4. A reinforced concrete inclosing tank or casing for electrical apparatus having a sheet metal lining composed of sections having laterally projecting inner ends which are embedded in the concrete and cemented together.

5. A tank or casing for electrical apparatus constructed of molded insulating material, and a sheet metal lining therefor comprising a plurality of sheet metal strips of U-shape in cross-section each having projections which are embedded in the tank walls.

6. A tank or casing for electrical apparatus constructed of molded insulating material, a sheet metal lining therefor comprising a plurality of sheet metal strips of U-shape in cross-section each having lateral projections which are embedded in the walls of the tank, and means for sealing the joints between the adjacent projections.

7. A tank or casing for electrical apparatus

tus constructed of molded insulating material, a sheet metal lining therefor comprising a plurality of sheet metal strips of U-shape in cross-section each having lateral projections
5 which are embedded in the walls of the tank, and fusible metal flowed into the spaces between the adjacent projections.

In testimony whereof, I have hereunto subscribed my name this twenty-fourth day of December, 1906.

HAROLD B. SMITH.

Witnesses:

JOHN W. MAWBEX,
E. BERT JOHNSON.