

No. 758,307.

PATENTED APR. 26, 1904.

F. FINDEISEN.
FLUSHING TANK.

APPLICATION FILED AUG. 10, 1903.

NO. MODEL.

Fig. 1.

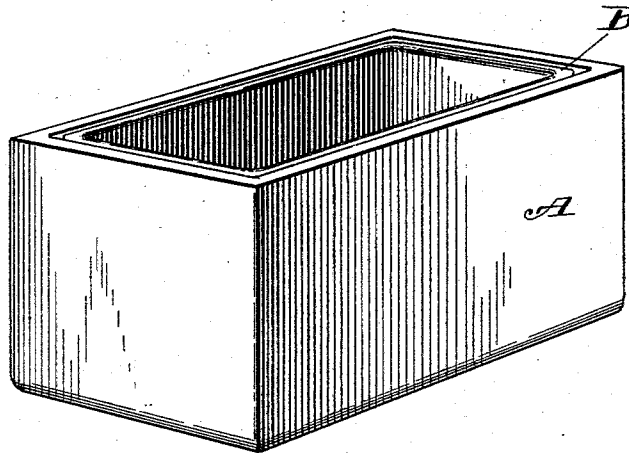
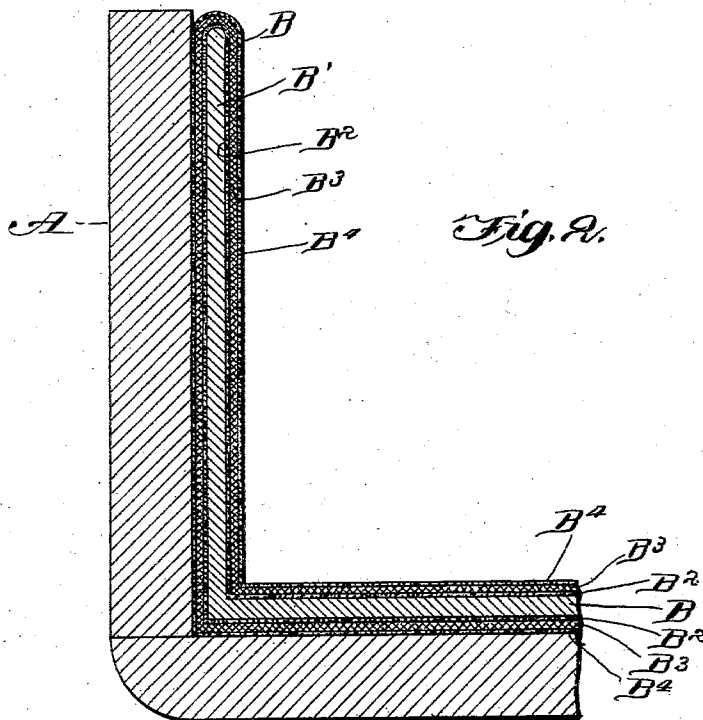


Fig. 2.

Witnesses:

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FREDERICK FINDEISEN, OF CHICAGO, ILLINOIS.

FLUSHING-TANK.

SPECIFICATION forming part of Letters Patent No. 758,307, dated April 26, 1904.

Application filed August 10, 1903. Serial No. 168,861. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK FINDEISEN, a citizen of the United States, residing at Chicago, county of Cook, State of Illinois, have invented a certain new and useful Improvement in Flushing-Tanks; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates in general to receptacles for containing liquids, and more particularly to flushing-tanks for water-closets.

It is customary to provide flushing-tanks with a metallic lining, usually composed of lead, zinc, or copper, within a wooden casing, the latter being employed to give the tank a more ornamental appearance and to prevent sweating, which would occur if the tank were made entirely of metal. It has been found by experience that the metal lining in such tanks in a comparatively short time leaks owing to the water containing properties which corrode or otherwise deteriorate the metal.

The primary object of my invention is to provide a receptacle for containing liquids which will not be injured by component ingredients of the liquids.

A further object of my invention is to provide a flushing-tank which will be thoroughly waterproof and which at the same time will not corrode or be otherwise injured by the various ingredients which are contained in the water.

A still further object of my invention is to provide a flushing-tank which will be simple in construction, inexpensive in manufacture, and durable in use.

My invention, generally described, consists in a base or core of approximately the size desired for the tank made of any material possessing the requisite strength, a layer of fibrous material secured to the surface of the core, and a waterproof coating covering the surface of the fibrous material.

My invention will be more fully described hereinafter with reference to the accompanying drawings, in which the same is illustrated

as embodied in a convenient and practical form, and in which—

Figure 1 is a perspective view of a flushing-tank embodying my invention, and Fig. 2 an enlarged sectional detail view.

The same reference characters are used to designate the same parts in both figures of the drawings.

Reference-letter A indicates the wooden casing of the flushing-tank, within which is located the lining B. The lining B consists in a base or core B' of the size and shape to be received within the wooden casing. The core B may be made of metal or any other suitable material possessing sufficient strength and durability. A fibrous covering B² is secured to the inner and also preferably the outer surface of the core B' by any suitable adhesive substance B³. The lining B³ may be composed of cloth, vegetable or woolen fabrics, or any other suitable fibrous material. The adhesive substance is preferably waterproof—such as asphalt, tar, pitch, rosin, wax, rubber, or any other suitable substance which is non-soluble by water and which will not be attacked by an acid or alkali, such as is contained in some waters. The fibrous lining B³ is covered with a coating B⁴ of any suitable waterproof material—such, for instance, as the various materials above enumerated.

The manner of constructing my invention is as follows: The core B' is made in the desired shape when composed of metal or suitably constructed when composed of other material. It is then covered with a coating of the adhesive substance, preferably by means of a brush when the adhesive substance is in a liquid form. The fibrous lining B³ is then laid smoothly over the surfaces of the cores and is secured thereto by the previously-applied adhesive substance. A coating of the waterproof material B⁴ is then applied to the outer surfaces of the fibrous material, preferably by means of a brush when the waterproof coating is in a liquid condition. If desired, other layers of fibrous material and waterproof coating may be added alternately in order to insure the resulting lining being thoroughly waterproof. A coating of wax may

also, if desired, be applied to the outer surface of the completed lining in order to facilitate the handling of the same. While the lining is preferably surrounded by a wooden casing A, such casing is, however, not necessary, and where it is not essential that the tank should have an ornamental appearance the lining constructed as above described may be used as a tank without being surrounded by a wooden casing.

A tank constructed according to my invention avoids the objection to a tank lined with metal—namely, the expansion and contraction due to changes in temperature will not crack or otherwise injure the lining. This desirable result is obtained in my invention by means of the fibrous lining, which yieldingly connects the inner coating of waterproof material to the core, thereby permitting the relative movement between the waterproof coating and the core necessary to prevent cracking or breaking of the lining when contraction and expansion occur.

While I have described my invention as embodied in a flushing-tank, it is to be understood that it is applicable to any receptacle for containing any liquid possessing properties which would attack and thereby deteriorate metal.

While I have described more or less precisely the details of construction, I do not wish to be understood as limiting myself thereto, as I contemplate changes in form, the proportion of parts, and the substitution of equivalents as circumstances may suggest or render expedient without departing from the spirit of my invention.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a flushing-tank for water-closets, the combination with a casing, of a lining for said casing comprising a metal core, a layer of fibrous material secured to the exterior and interior surfaces of said core, and a waterproof coating covering said fibrous material.

2. In a flushing-tank for water-closets, the combination with a wooden casing, of a removable lining for said casing comprising a core, a layer of fibrous material secured to the exterior and interior surfaces of said core, and a waterproof coating covering said fibrous material.

3. In a flushing-tank for water-closets, the combination with a wooden casing, of a removable lining for said casing comprising a metal core, a coating of adhesive substance upon said core, a layer of fibrous material secured to said core by the adhesive substance, and a waterproof coating covering said fibrous material.

4. In a flushing-tank for water-closets, the combination with a metal core, of a coating of adhesive substance upon said core, a layer of yielding fibrous material secured to the interior and exterior surfaces of said core by the adhesive substance, and a waterproof coating covering said fibrous material.

In testimony whereof I sign this specification in the presence of two witnesses.

FREDERICK FINDEISEN.

Witnesses:

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