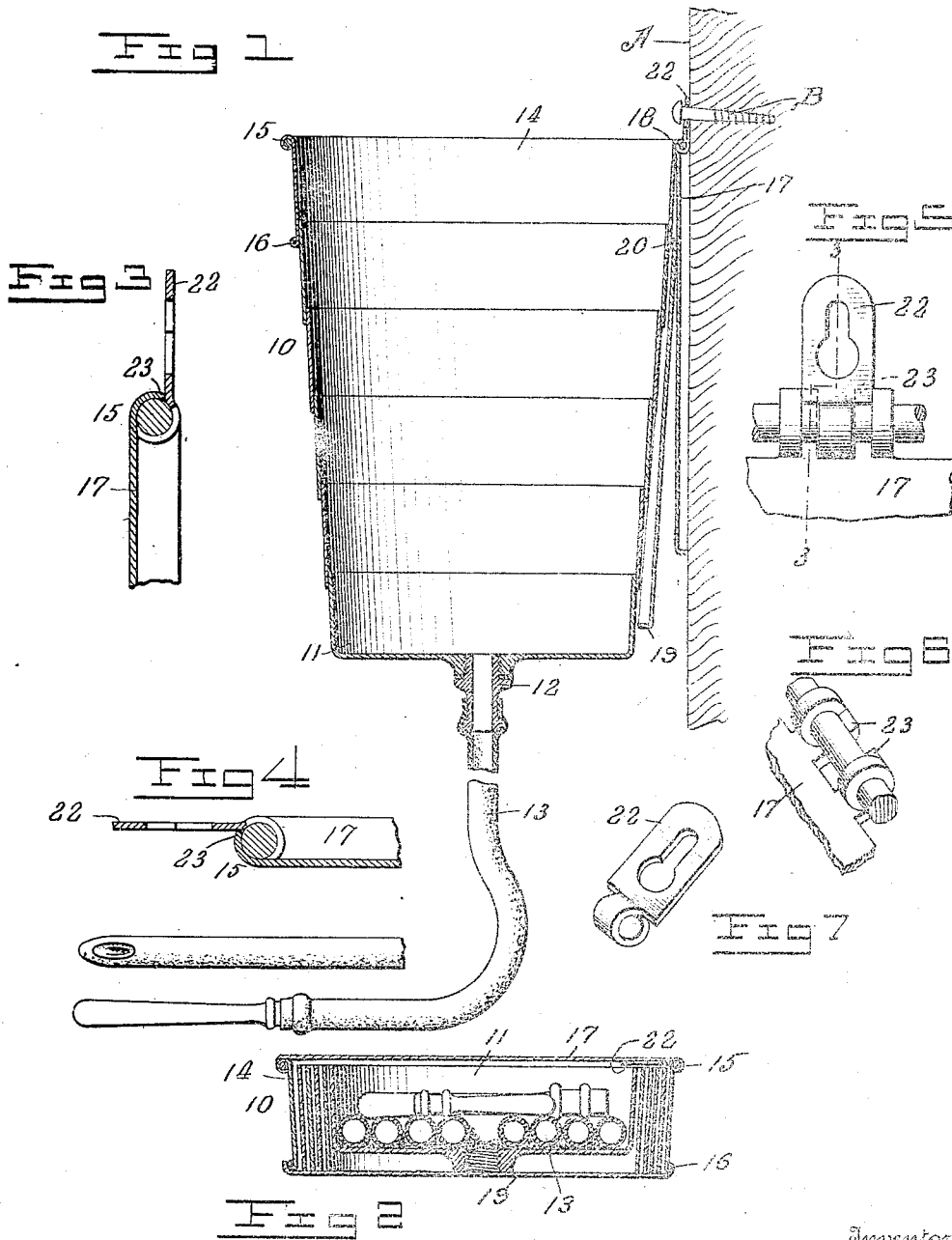


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 ASEPTIC FOUNTAIN SYRINGE OR IRRIGATOR.
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1,017,773.

Patented Feb. 20, 1912.



Witnesses
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UNITED STATES PATENT OFFICE.

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ASEPTIC FOUNTAIN SYRINGE OR IRRIGATOR.

1,017,773.

Specification of Letters Patent.

Patented Feb. 20, 1912.

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To all whom it may concern:

Be it known that I, SHIRLEY N. LEACH, a citizen of the United States, and a resident of Sweet Water, in the county of Nolan, State of Texas, have invented a new and useful Improvement in Aseptic Fountain Syringes or Irrigators, of which the following is a specification.

Among the objects of this invention is to provide a device of the character indicated which shall be capable of easy and thorough sterilization and cleansing.

Another object is to construct the device the tank or fountain of which is wholly of strong rigid material in order to make it practically indestructible under ordinary conditions of use, and yet which may be manufactured at a nominal cost.

A still further object is to adapt the device especially for physicians' or surgeons' use, though by no means so limiting its use, the device being collapsible into small compass for convenience of packing and portability, the tubing and all the usual accessories being self-contained within the tank when collapsed.

The foregoing and other objects are attained in a preferred form of the invention illustrated in the accompanying drawings, wherein like parts are referred to in the several views by the same reference characters, and in which—

Figure 1 is a vertical section showing the device in position for use; Fig. 2 is a similar view of the same in collapsed or nested position; Figs. 3 and 4 are vertical details of the lid and hanger connections; Fig. 5 is a plan view of the same, corresponding to the position of Fig. 3, and Figs. 6 and 7 are perspective details of the same parts.

The tank 10, of any desired capacity, is composed of any suitable number of telescopic collapsible sections of metal or other durable material, all separable from one another. The bottom section 11 is cup shaped and has connected thereto in any convenient detachable manner a nipple 12, to which any desired length or construction of flexible tubing 13 is connected in the manner and for the purposes well understood in the art. The uppermost and largest section 14 is reinforced, as shown, by rims 15 and 16 at its upper and lower margins. A top lid or cover 17 is hinged at 18 to the upper rim, and a corresponding bottom lid or cover 19 may be hinged to the lower rim at 20. All

the lower sections are adapted to nest entirely within the section 14 and between the lids 17 and 19 when closed, as in Fig. 2.

It is essential that the tank or container 10 be held not only substantially stationary when in use, but also in a perfectly upright position, so as to keep the top level and of the full capacity. But since a collapsible tank of the character indicated is necessarily tapered, some special means must be introduced to keep the bottom spaced from the wall A upon which the device is hung. To this end the lid 17 is so arranged as to swing around through an angle of substantially 270° and lie with its normally upper surface snugly against the lower rim 16 or the lower lid 19, said lid 17 hence lying squarely against the wall throughout its circumference and constituting a means preventing lateral swinging of the tank as well as a means preventing the front portion of the tank from tilting downward, even though made of large capacity and quite full of liquid. The hanger 22 is shown also as being hinged to the upper rim at 18. The arrangement is preferably such that while the lid 17 is moving through the last third of its opening movement the hanger will be engaged by one or more shoulders 23 formed on the lid and thereby elevated to the position of Fig. 4 ready for engagement with the nail or screw B on the wall. The convenience of the hanger is much increased by this arrangement, for not only will it be unnecessary for the operator to make a special movement, reaching into the tank to elevate the hanger, but it will be noted that the co-operation between the lid 17 through the shoulders 23 with the hanger will positively retain the latter elevated while the device is being hung upon the nail, screw, or hook B, placed usually above the operator's head, and when for this reason the hanger is not in plain view.

Having thus described a preferred embodiment of the invention, what I claim and desire to secure by Letters Patent of the United States is:

1. The herein described aseptic fountain syringe or irrigator comprising, in combination, a tank composed of rigid material and having upper and lower marginal rims, a lid adapted to close the top of the tank, said lid being hinged to the upper rim so as to swing, on opening, through an arc of sub-

stantially 270° into engagement with said lower rim, a hanger pivoted adjacent the lid hinge, and means whereby the hanger is elevated by the lid while the latter is swinging through the last portion of said arc, substantially as shown and described.

2. The herein described aseptic fountain syringe or irrigator comprising, in combination, a tapered tank of substantially rigid material, a lid hinged to the tank and constituting a wall brace preventing lateral movement or downward tilting of the tank when the device is in use, a hanger pivoted adjacent the lid hinge and adapted to lie within the lid when closed, means whereby said hanger is elevated on the opening movement of said lid and prevented from falling when being hung, and a flexible tube connected to the tank, substantially as and for the purposes set forth.

3. The herein described aseptic fountain syringe or irrigator comprising a tapered tank, means to hang the tank upon a wall at an elevated point, a lid hinged to the tank and movable from the top thereof to a position between the body of the tank and the wall, said lid serving to prevent lateral vibration of the tank, and means cooperating with the lid to keep the bottom of the tank spaced from the wall and so maintain the tank substantially vertical, as shown and described.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

SHIRLEY N. LEACH.

Witnesses:

GEO. L. BEELER,

ARTHUR L. BRYANT.