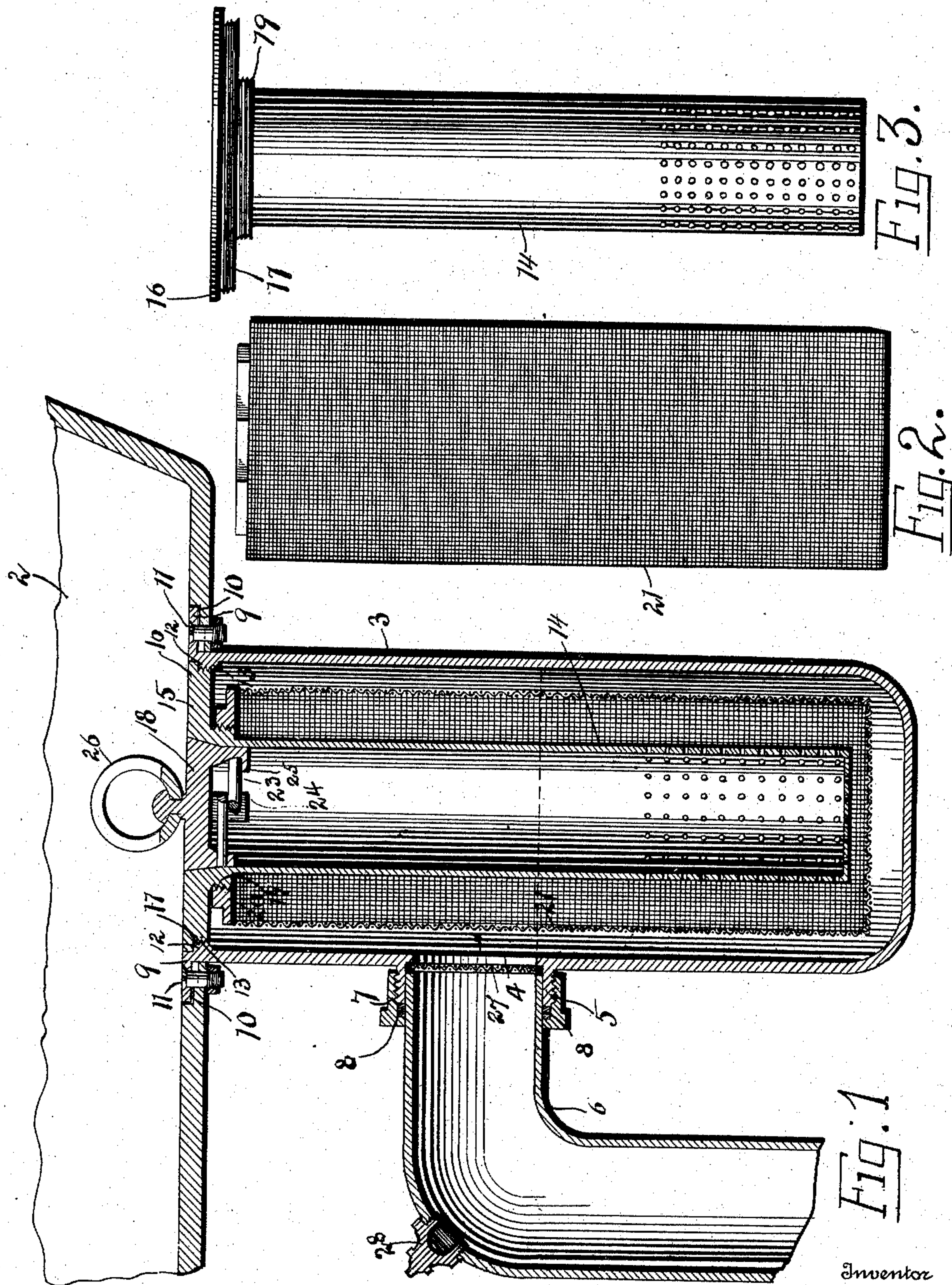


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SINK TRAP.  
APPLICATION FILED MAY 11, 1909.

Patented July 26, 1910.

2 SHEETS—SHEET 1.



Witnesses

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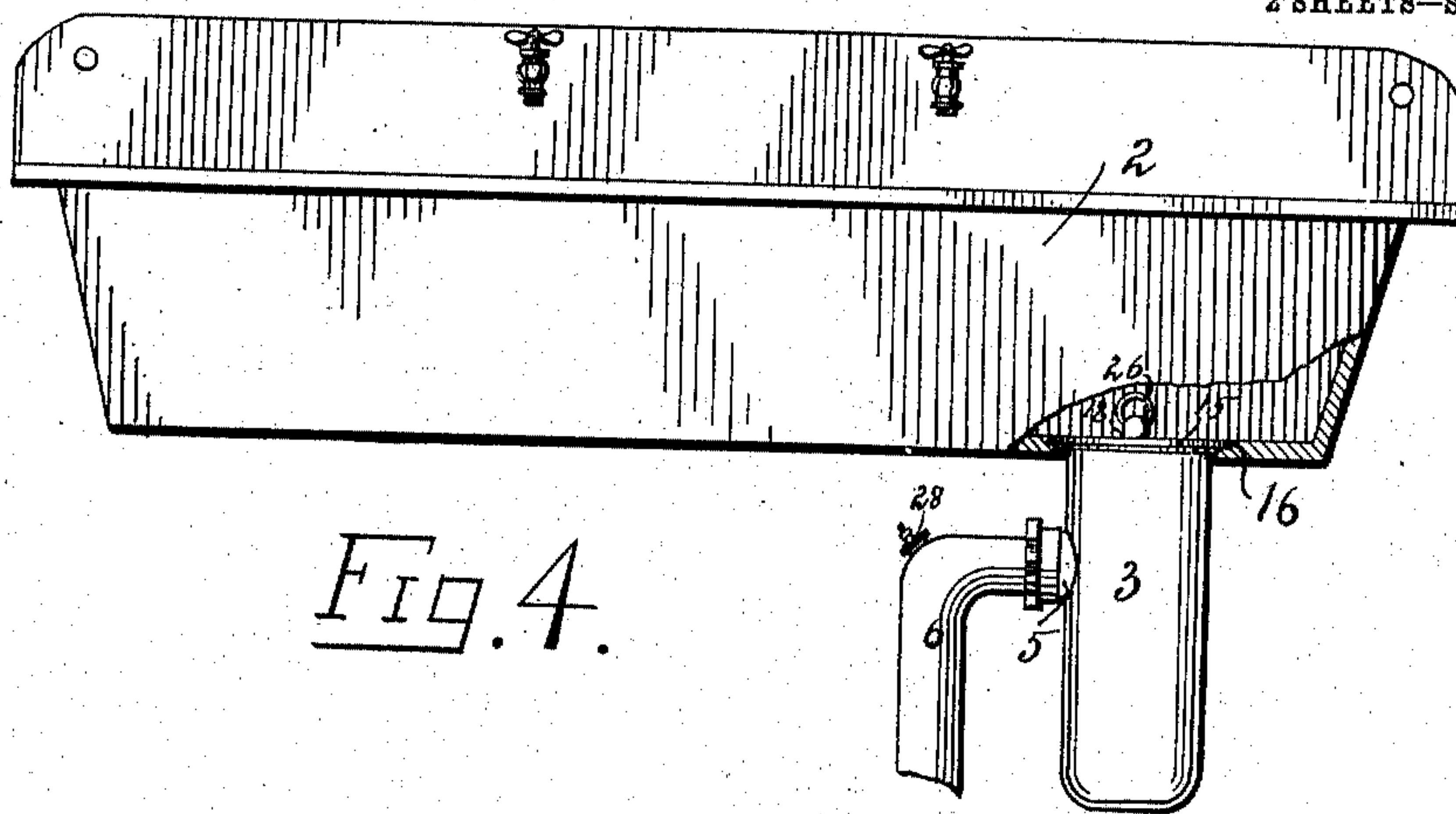


Fig. 4.

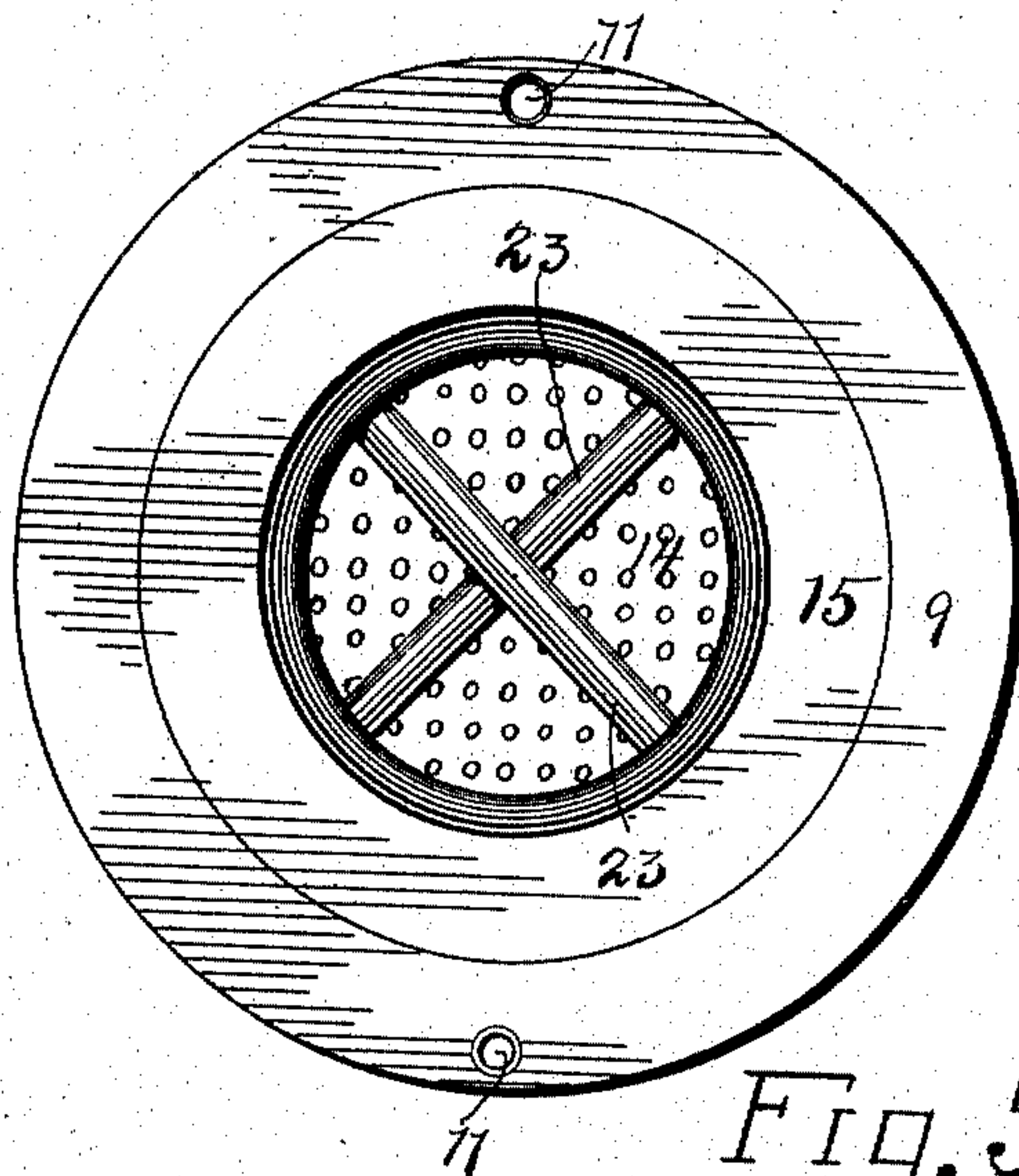


Fig. 5.

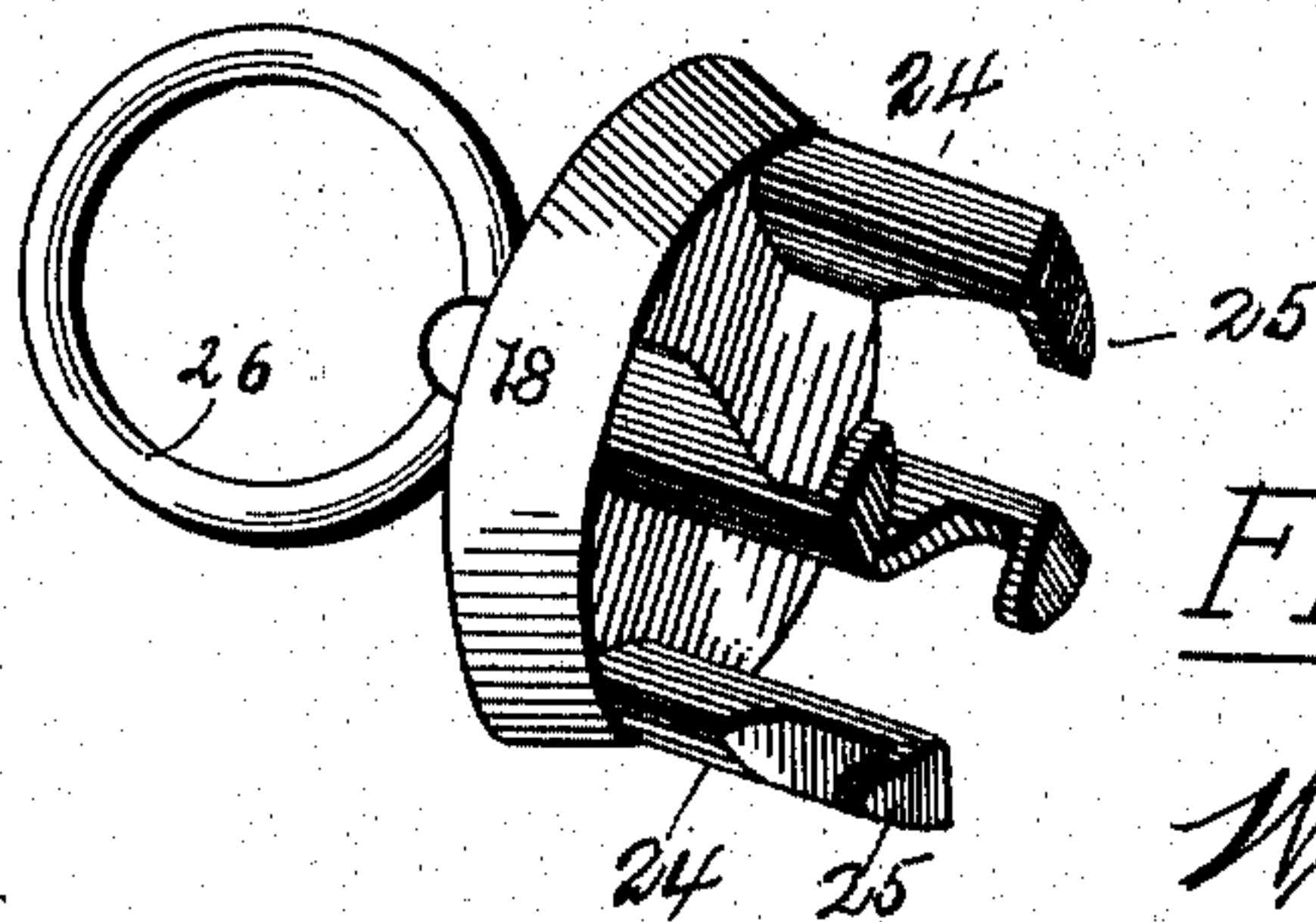


Fig. 6.

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# UNITED STATES PATENT OFFICE.

WILLIAM J. RAY, OF JACKSONVILLE, FLORIDA.

## SINK-TRAP.

965,836.

Specification of Letters Patent.

Patented July 26, 1910.

Application filed May 11, 1909. Serial No. 495,238.

*To all whom it may concern:*

Be it known that I, WILLIAM J. RAY, a citizen of the United States, residing at Jacksonville, in the county of Duval and State of Florida, have invented a certain new and useful Sink-Trap, of which the following is a specification.

This invention relates to traps for sinks for kitchens, wash-houses, bar-rooms, etc., from which water containing grease or sediment liable to stop or clog up waste pipes, is discharged, and it has for its object to provide a simple, durable, and comparatively inexpensive trap not liable to get out of order and easily and quickly cleansed of all grease, refuse, and foul sediment, and it consists of the parts and combinations of parts hereinafter described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a vertical longitudinal section through a sink and my improved trap. Fig. 2 is a detail view in elevation of the strainer cylinder or vessel. Fig. 3 is a detail view in elevation of the interior or receiving pocket. Fig. 4 is a front elevation of a sink partly broken away to show my improved trap in position. Fig. 5 is a detail plan view of the receiving tube—and when placed in sink is flush with bottom of same. Fig. 6 is a perspective view of the sink plug.

Similar numerals represent similar parts throughout all the views.

Referring to the drawings the numeral 2 represents the sink, and 3 the drum of the trap which is provided or formed with an outlet 4 at one side at a suitable distance above its bottom to permit of the forming of a water seal. An exteriorly threaded annular flange 5 surrounds the outlet 4 to receive the elbow pipe 6, which connects with the sewer, or drain, or other disposal point, which is sealed by the threaded collar 7 and a washer 8. At the top or open end of the drum an outwardly extending annular flange 9 is formed which fits into an annular recess 10 formed in the bottom of the sink and surrounding the discharge opening therein, corresponding bolt openings being formed through the flange and the sink bottom whereby the parts may be secured together by screw-bolts 11, and thus suspend the drum firmly in position. An annular shoulder 12, provided with screw-threads 13, is formed in the open end or mouth of the

drum and slightly below the top edge thereof in order to form a support for the receiving pocket 14 and suspend the same in the drum. The receiving pocket is formed with the annular top flange 15, having the extended annular shoulder 16, adapted to rest on the shoulder 12, and is threaded at 17 to engage the threads 13, on the shoulder 12, in order to removably secure the pocket in place. The pocket is preferably formed of brass and its wall, from a point below the water line of the drum, is perforated as is its bottom, while its open upper end is formed to receive the conical plug 18 to form a tight or close joint.

Below the flange 15 of the tube a threaded shoulder 19 is formed to receive the threaded interior shoulder 20 formed on the neck of a foraminous, cylindrical vessel 21, said vessel consisting of the solid annular top piece 22 and a cylindrical tube the walls and bottom of which are formed of screen wire or metal of finer mesh than the perforations in the receiving pocket.

Across the neck of the receiving pocket is secured the rods 23 at right angles to each other, and from the bottom of the plug 18 projects the fingers 24 which are arranged diametrically opposite each other in pairs and which are formed with the hooked ends 25 to adapt them to engage the rods 23 when the plug is in place and said fingers lowered between the rods and the plug given a partial turn. As shown one pair of the fingers is longer than the other so as to adapt the long pair to engage the lower rod 23. A ring 26 is secured to the plug as a handle for manipulating the same. Thus when it is desired to empty the contents of the pocket 14 and the cylinder or vessel 21 and to clean out the drum 3, the plug 18 is turned so as to cause its hooked fingers to engage the rods 23. The continual turning of the plug unscrews the flange 15 from the shoulder 12 of the drum and the pocket and vessel may be lifted from the drum and their contents removed. The drum may then be cleaned by inserting the hand therein and removing its contents.

A wire mesh screen or perforated plate 27 is secured in the outlet 4 and a clean-out plug 28 is arranged in the waste elbow 6.

With the parts in the position described the sink may be used as a tank or pan for washing dishes, etc., and when the plug 18



is removed the waste contents of the sink will be drained off through the receiving pocket. Should any article, such as soap, or a spoon, or other piece of table ware be accidentally left in the sink it will be caught by the crossed rods 23 and be prevented entering the receiving pocket, as will other large articles, but all sediment, refuse, etc. which may pass the crossed rods and of a size too large to pass through the perforations in the receiving pocket will be caught in the latter, while the finer sediment and water or other liquid and such grease as may be carried thereby, will escape through the perforations and enter and be caught by the foraminous cylinder or vessel 21, while the liquids will pass into the drum and rise therein and finally pass out through the outlet 4 to the elbow and thence to the sewer or drain. The screen 27 in the outlet serves as an additional guard against the escape of sediment or heavy grease to the elbow.

It will be noted that with the construction described an air chamber is provided in the trap above the water line which absolutely prevents siphonage.

The vessel 21 is of such a mesh as to prevent the escape of grease and it will be found adhering to the interior of the same.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A trap for sinks, comprising a drum having an annular threaded shoulder at its mouth end, a discharge pipe for said drum, a perforated receiving pocket having an exteriorly threaded flange for engagement with said shoulder to removably secure said pocket in said drum, and a foraminous ves-

sel removably secured to said pocket and inclosing the same within the drum.

2. A trap for sinks, comprising a drum having an annular flange adapted to rest on the sink bottom and a threaded interior shoulder, a discharge pipe for said drum, a perforated receiving pocket having a threaded flange adapted to rest on and engage said threaded shoulder to removably suspend said pocket in said drum, and a foraminous vessel surrounding said pocket and removably attached thereto.

3. A trap for sinks, comprising a drum having a discharge outlet, a receiving pocket removably secured to said drum, and means consisting of a plug adapted to close the mouth of said pocket and having fingers for engaging said pocket to release and remove said pocket from the drum.

4. A trap for sinks, comprising a drum having a threaded interior shoulder, a receiving pocket having a threaded exterior flange, transverse rods secured in the mouth of said pocket, and a plug adapted to close the mouth of said pocket and to engage said rods, whereby said pocket may be released and lifted from said drum.

5. A trap for sinks, comprising a drum, a receiving pocket adapted to screw into said drum, a foraminous vessel suspended from said pocket, and a plug to close the mouth of said pocket and screw and unscrew said pocket in place.

In testimony whereof, I affix my signature, in the presence of two witnesses.

WILLIAM J. RAY.

Witnesses:

CLARA D. DONOHUE,  
CHARLES LOWELL HOWARD.