

(No Model.)

P. CASEY, Jr.
FIRE EXTINGUISHING TANK.

No. 597,812.

Patented Jan. 25, 1898.

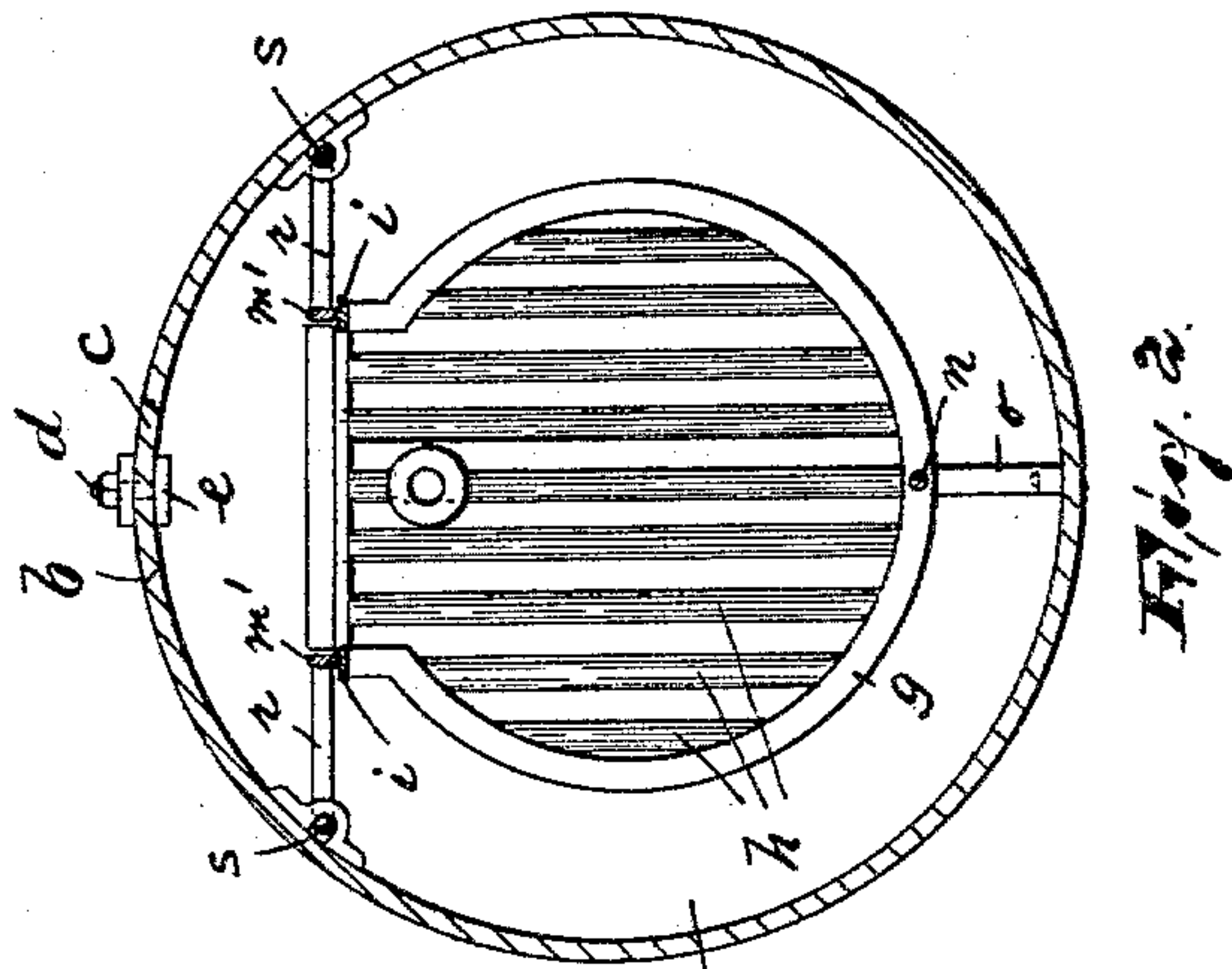


Fig. 2.

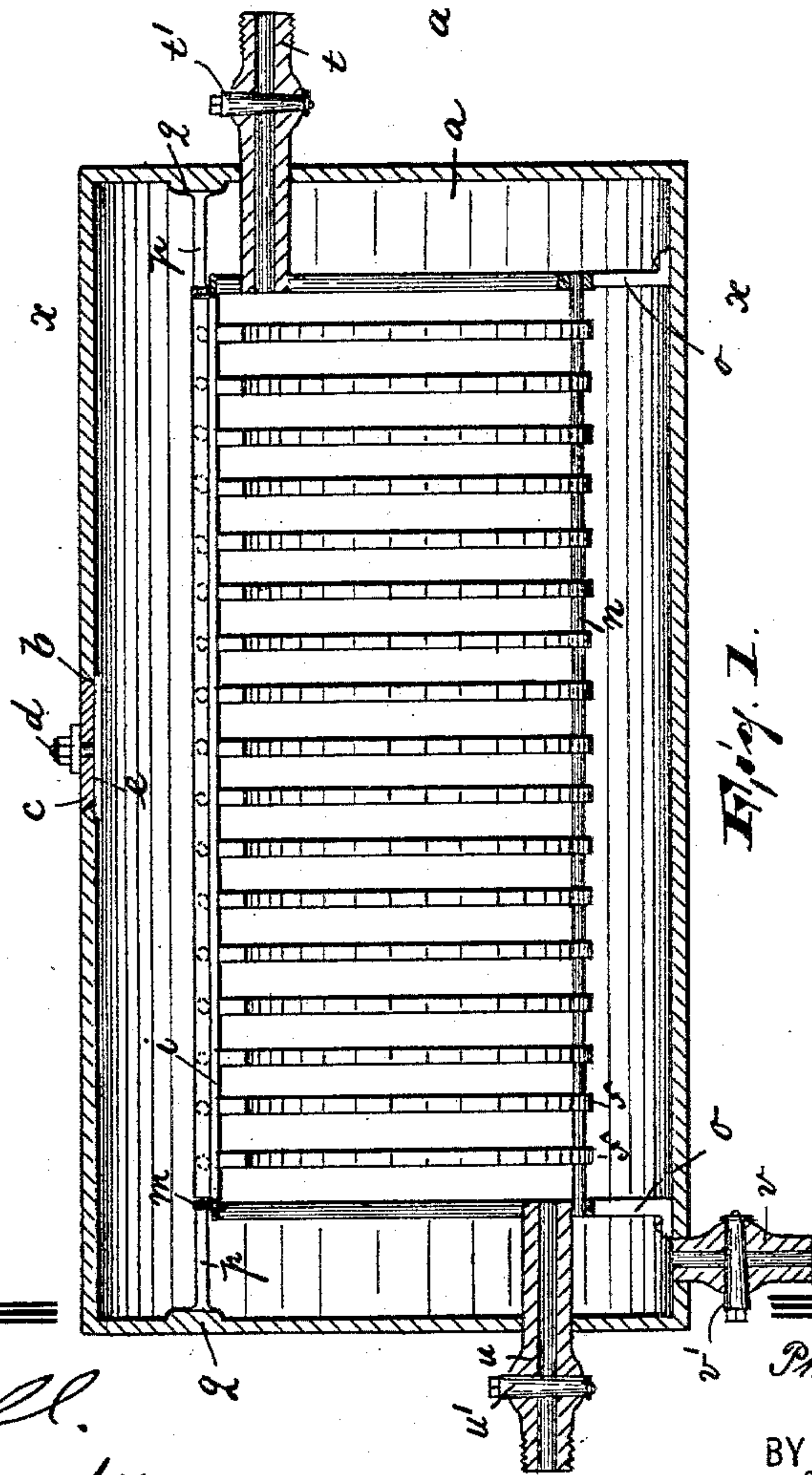


Fig. 1.

WITNESSES:

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PHILIP CASEY, JR., OF PATERSON, NEW JERSEY.

FIRE-EXTINGUISHING TANK.

SPECIFICATION forming part of Letters Patent No. 597,812, dated January 25, 1898.

Application filed July 7, 1897. Serial No. 643,771. (No model.)

To all whom it may concern:

Be it known that I, PHILIP CASEY, JR., a citizen of the United States, residing in Paterson, county of Passaic, and State of New Jersey, have invented certain new and useful Improvements in Fire-Extinguishing Tanks; and I do hereby 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to provide a fire-extinguishing tank of simple, strong, and durable construction, and which tank is to be connected with a hydrant and a fire-engine, respectively, whereby the water passing through said tank dissolves a certain quantity of the rock-salt arranged in said tank.

The invention consists in the improved fire-extinguishing tank and in the combination and arrangement of the various parts thereof, substantially as will be hereinafter more fully described, and finally embodied in the clauses of the claim.

In the accompanying drawings, Figure 1 is a side elevation of my improved fire-extinguishing tank, partly in section and certain portions removed to better illustrate the nature of my said invention; and Fig. 2, a sectional view on the line *x x* of Fig. 1.

In said drawings, *a* represents a cylindrical tank, preferably of wood, and provided in its top portion with an oval hole or opening *b*, having beveled edges and adapted to receive a correspondingly-shaped lid or cover *c*, penetrated by a bolt *d*, to the lower portion of which is secured an arm *e*, serving to lock said lid to said tank, as will be manifest.

Within the tank *a* are arranged a series of grates *f f*, consisting of a substantially circular rim or flange *g* and of a series of vertically-arranged bars or rods *h*. The upper portions of said grates are secured to a rectangular frame *i*, while the lower portions of said grates are supported by a rod or bar *n*, in turn supported by legs *o*, as clearly illustrated in the drawings. On the shorter sides of the rectangular frame *i* rest the bars *m*, arranged on the free ends of the grated lids *p*, the other ends of which are supported by the heads of the tank, as shown at *q q* in Fig. 1. The longer sides of said rectangular

frame *i* are adapted to be engaged by and thus form a support for the bars *m'*, arranged on the free ends of the grated lids *r*, the other ends of which are pivotally secured, as at *s s*, to the inside of the tank *a*.

The inlet-pipe *t* penetrates the head of the tank *a* and is secured to and within the end grate adjacent to said head, and is provided with a valve *t'* of ordinary construction. A similarly-constructed pipe *u*, with valve *u'*, penetrates the opposite head of the tank *a* and is secured to and within the end grate, as clearly illustrated. The outer ends of both of these pipes are screw-threaded, so that they can be conveniently connected with the coupling of a hose leading to the hydrant and fire-engine, respectively. Within the bottom of the tank *a* is arranged another pipe *v*, with valve *v'* for the purpose of emptying said tank when so desired.

It must be remarked that the chamber formed between the grates and the tank (and closed by the grated lids *p* and *r*) is filled with rock-salt, and the water entering through the pipe *t* and leaving through the pipe *u* dissolves a certain amount of said rock-salt, which greatly assists in extinguishing fires, as will be manifest.

The rock-salt is inserted through the hole or opening *b* in the top of the tank and is closely packed within the chamber heretofore mentioned.

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

A fire-extinguishing tank comprising a cylindrical tank provided in its bottom with an outlet and in its top with a lid-covered opening, a series of parallel grates within said tank and each consisting of a substantially circular rim and of a series of vertical rods or bars, a rod or bar connecting the lower portions of said grates, a rectangular frame connecting the top portions of said grates, grated lids supported by said tank and resting with their free ends upon the top of the rectangular frame, and an inlet and outlet pipe penetrating the opposite heads of said tank and secured to and within their respective end grates, all said parts, substantially as and for the purposes described.

PHILIP CASEY, JR.

Witnesses:

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