L. KESSLER.

FILLING TUBE FOR GASOLENE RECEPTACLES.

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1,155,070.

Patented Sept. 28, 1915.

Fig. 1.

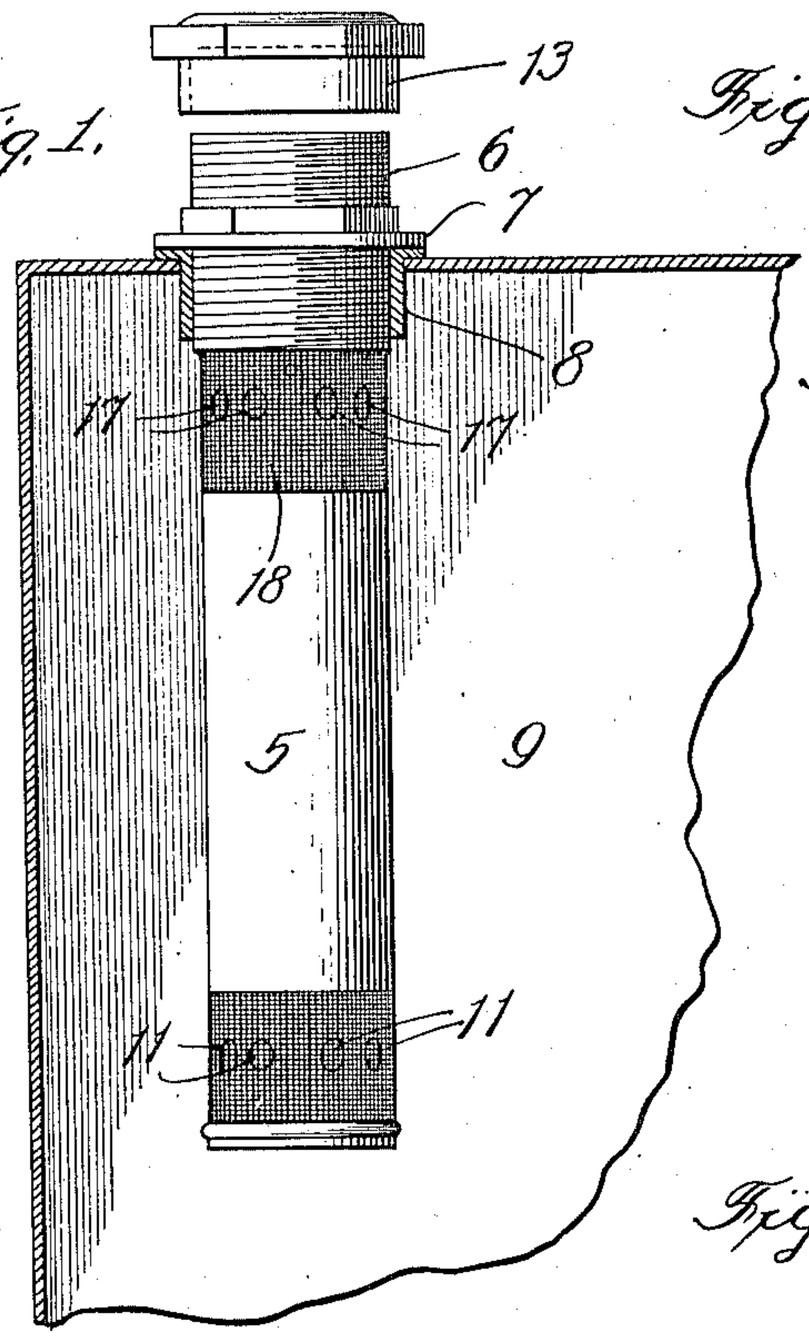


Fig. 2.

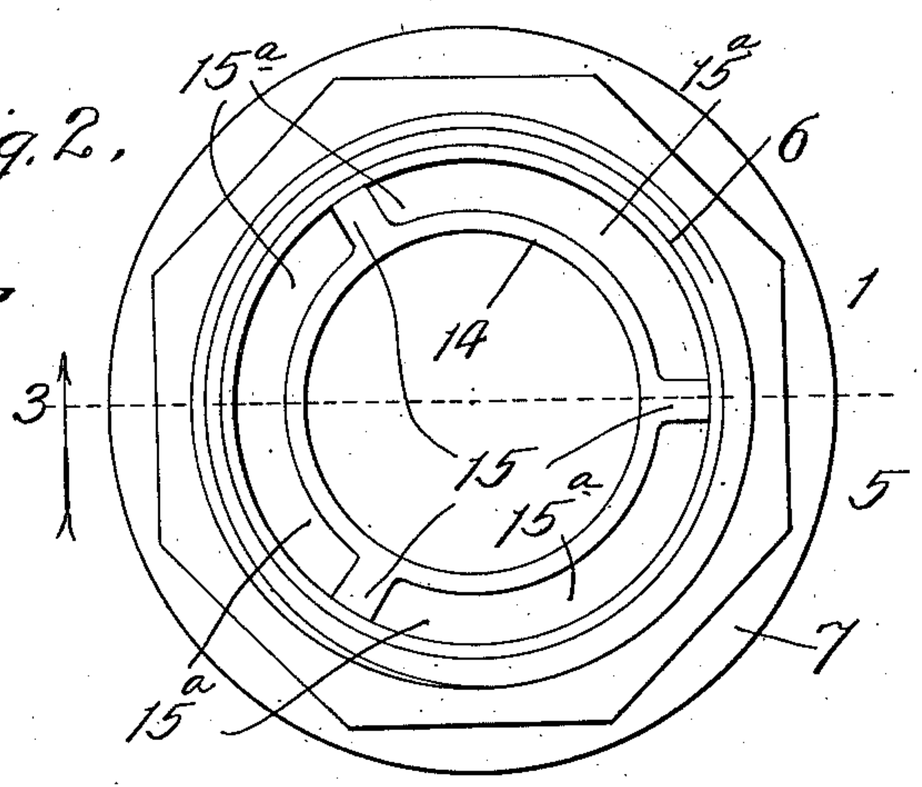


Fig. 3.

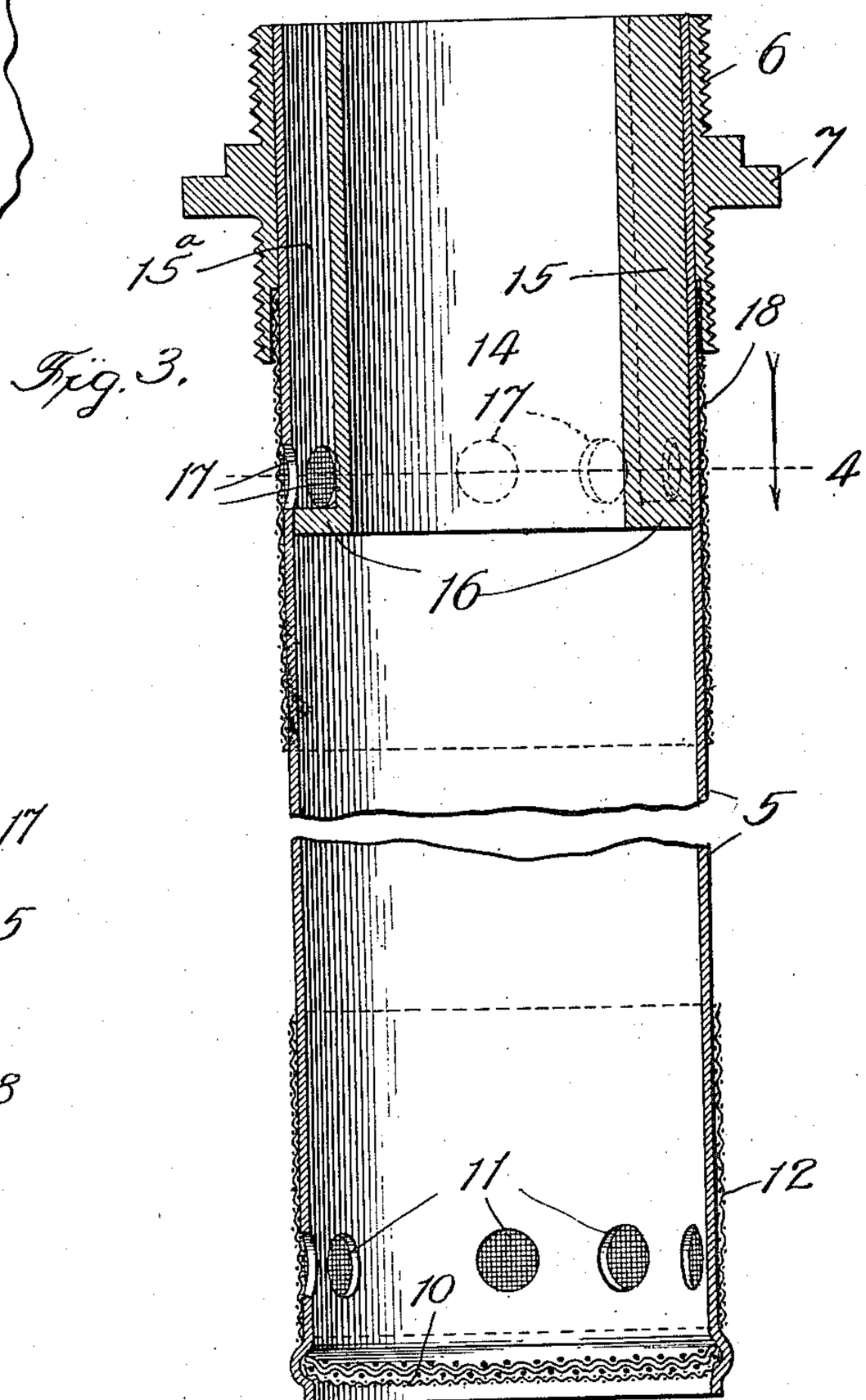
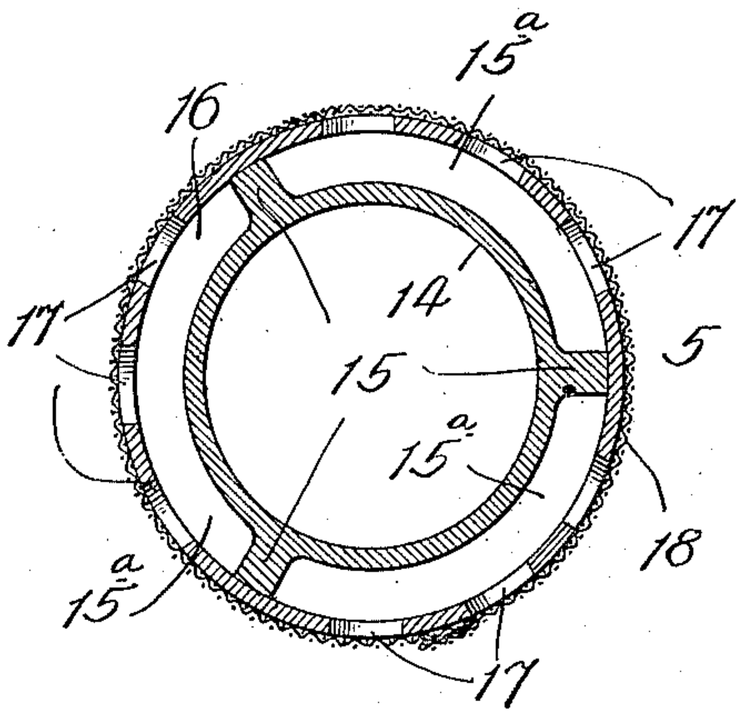


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

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FILLING-TUBE FOR GASOLENE-RECEPTACLES.

1,155,070. Specification of Letters Patent. Patented Sept. 28, 1915.

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To all whom it may concern:

Be it known that I, LOUIS KESSLER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Filling-Tubes for Gasolene-Receptacles, of which the following is a specification.

My invention relates to an improvement in filling-nozzles or tubes, and particularly those that are employed in tanks, cans and the like for holding gasolene, which are provided with gauze-covered openings to guard against explosion.

The primary object of my invention is to facilitate filling the holder through its filling-nozzle by causing the air displaced by the gasolene, in introducing the latter, to escape by a passage surrounding but separated from that through which the gasolene is poured, thus to prevent air-binding obstruction to the introduction and resultant overflow-spilling of the gasolene in pouring it, as through a funnel.

In the accompanying drawing, Figure 1 is a sectional view of a broken portion of a tank equipped with my improved filling tube, shown in elevation; Fig. 2 is an upper-end view of the tube; Fig. 3 is a section on line 3, Fig. 2, and Fig. 4 is a section on line 4, Fig. 3.

The filling tube 5 is surrounded toward its upper end by a threaded collar 6 provided between its ends with a circumferential circular flange 7 of angular formation on its upper side to adapt it for application of a wrench. The lower section of this collar screws into a flanged thimble 8 secured in seated position in an opening provided to receive the thimble in the top of a gasolene-holder 9, such as a garage-tank, into which the filling-tube depends. The inner, open end of this tube is covered with reinforced wire gauze, as shown at 10, and near that end the tube contains, for the flow, a circumferential series of openings 11 which are covered by wire gauze 12. A cap 13 screws on the outer end of the collar 6 to seal the tube.

As thus far described the filling tube presents no features of novelty.

A relatively short and narrow tube 14, having longitudinal ribs 15 at intervals about its outer surface and a flange 16 about its lower end, fits in the upper section of the outer tube with the ribs and flange contacting with the inner surface of the tube 5. The tube 14 is secured in place, as by riveting, and a series of openings 17 is formed about the tube 5 just above the flange 16, from which latter the ribs 15 form air-passages 15ª between them, which are cut off by the flange from the lower section of the outer tube. These openings are covered with wire gauze 18 surrounding the tube 5 and secured in place, as by soldering and riveting. Thus, in filling a holder 9 with gasolene (or, in fact, with any other liquid), the air displaced thereby escapes freely by way of the openings 17 through the passages 15ª; and by being prevented from gaining access to the path of the inflowing liquid, obstruction of the latter in entering the holder is avoided, with consequent overflow-spilling, and the inflow takes place without interruption.

What I claim as new and desire to secure by Letters Patent is:—

1. In a filling tube of the character described, the combination of an outer tube provided with openings in its wall below its outer end, and a relatively short inner tube having an external flange about its inner end fitting and secured in the outer tube below said openings to close them to the interior of the outer tube and forming an air passage between the tubes.

2. In a filling tube of the character described, the combination of an outer tube provided with openings in its wall below its outer end, and a relatively short inner tube having an external flange about its inner end fitting and secured in the outer tube below said openings to close them to the interior of the outer tube, and air-passage-forming ribs extending outwardly from the flange.

3. In combination with a holder of the character described, a filling tube supported to depend therein and comprising an outer tube having a gauze-covered inner end, gauze-covered openings near said end, and

gauze-covered openings toward its outer end, and a relatively short inner tube having an external flange about its inner end fitting and secured in the outer tube below said last-named openings therein to close them to the interior of the outer tube, and air-passage-forming ribs extending outwardly from the flange.

LOUIS KESSLER.

In presence of—
A. C. FISCHER,
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