

No. 703,087.

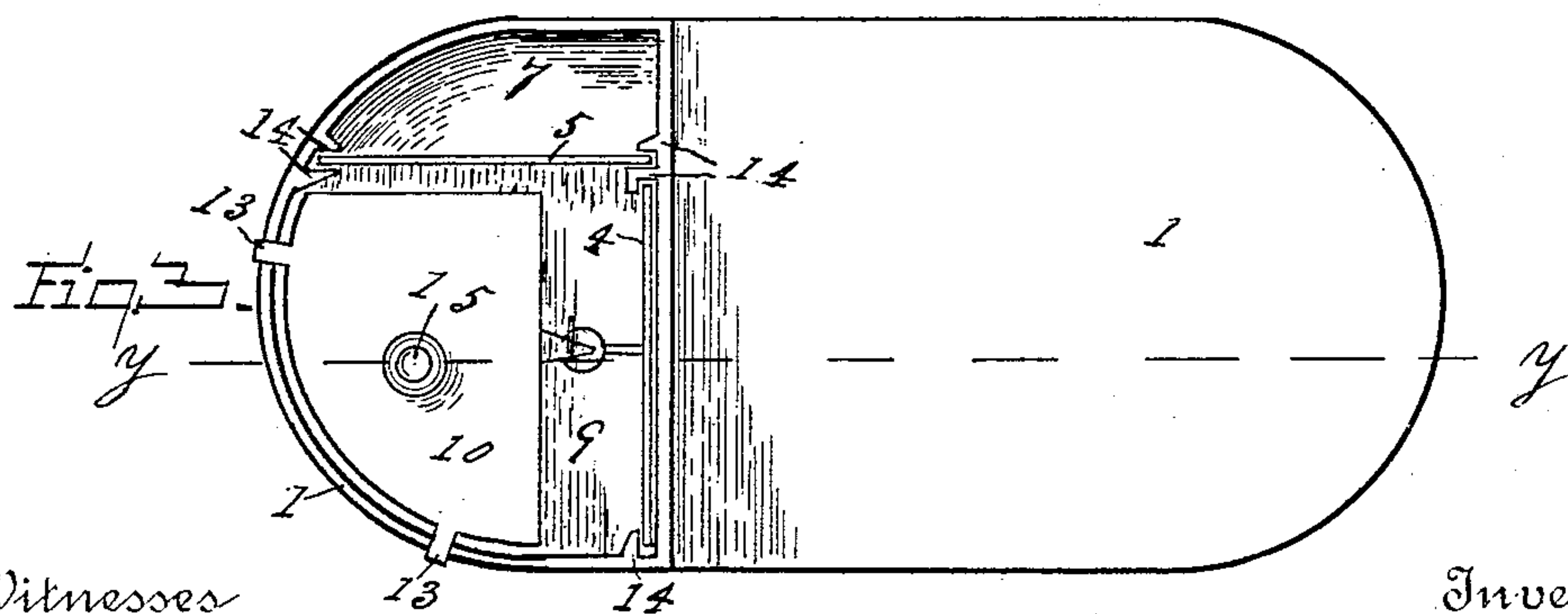
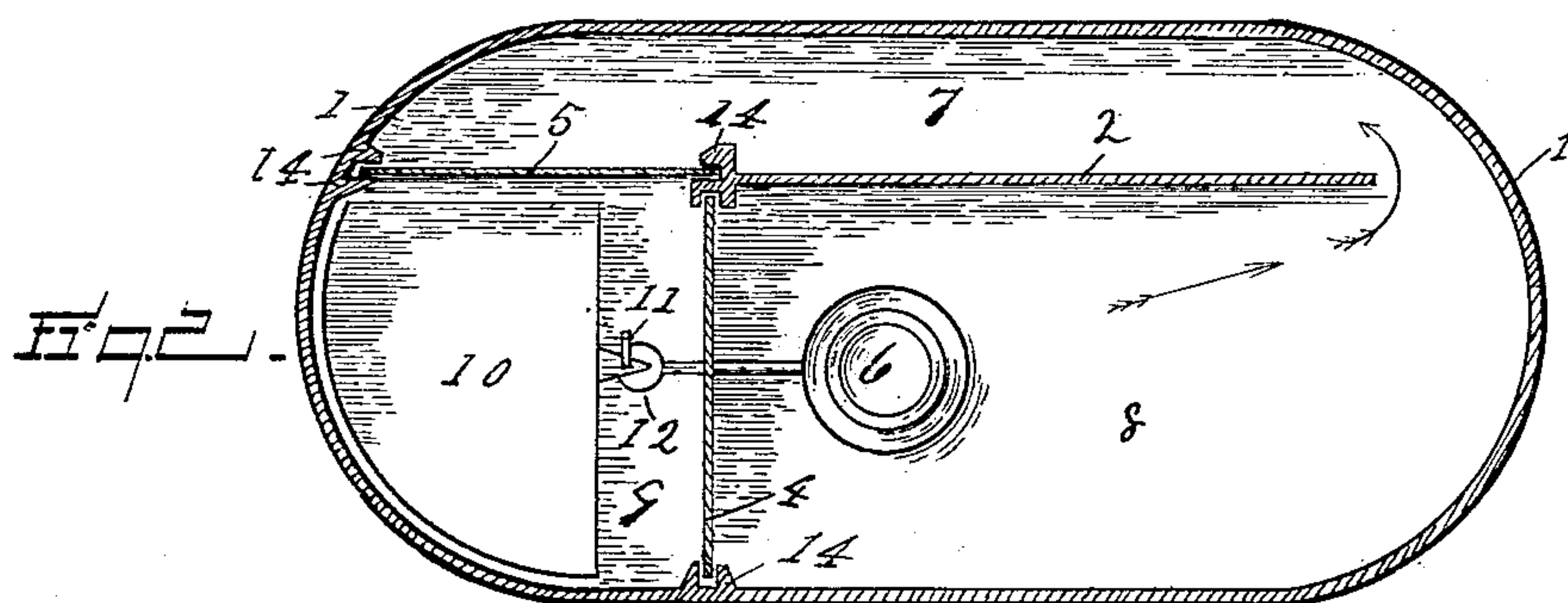
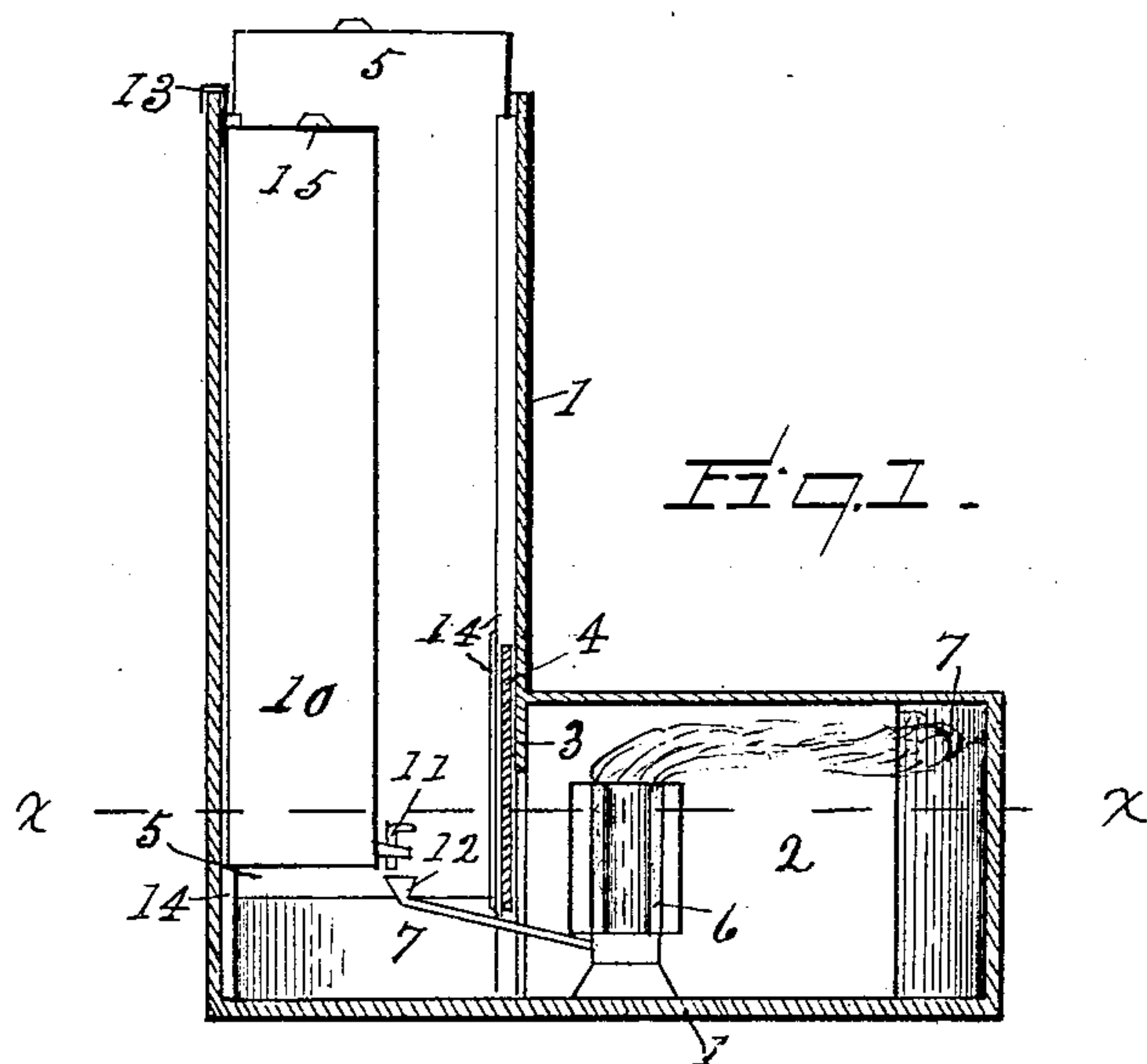
Patented June 24, 1902.

H. H. SCHENK.

TANK HEATER.

(Application filed Mar. 13, 1902.)

(No Model.)



Witnesses 13
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UNITED STATES PATENT OFFICE.

HENRY H. SCHENK, OF MEMPHIS, MISSOURI.

TANK-HEATER.

SPECIFICATION forming part of Letters Patent No. 703,087, dated June 24, 1902.

Application filed March 13, 1902. Serial No. 98,131. (No model.)

To all whom it may concern:

Be it known that I, HENRY H. SCHENK, a citizen of the United States, residing at Memphis, in the county of Scotland, State of Missouri, have invented a new and useful Improvement in Tank-Heaters, of which the following is a specification.

This invention relates to improvements in tank-heaters, in which I use oil or gas for fuel, or I can use hard coal.

The object of this invention is to make a simple, strong, and durable tank-heater that does not need much attention to keep it going for several days after starting. I also provide a convenient and safe place for the oil-supply tank, where it can be easily refilled. By having the casing cast in one piece I provide a heater that will not leak. By examining the accompanying drawings and specification it will be seen that I attain these objects.

Figure 1 is a vertical section of the heater on line *y y*, Fig. 3. Fig. 2 is a sectional plan view of the entire heater on line *x x*, Fig. 1. Fig. 3 is a plan view.

Similar numerals refer to similar parts throughout.

The casing 1, partition 2, the downward-extending partition 3, and the slide-partition guides 14 are all cast in one piece. Slide partition 4 acts as a damper and shuts off more or less air from combustion-chamber 8, containing burner 6, after which the heated air escapes around the end of partition 2 and out through chamber 7, as indicated by arrows, thereby getting the greatest amount of heat

out of a given quantity of fuel in a small space and in a cheap and easy way. The slide partition 5 slides in groove 14 and separates the air-chamber 9 from the hot-air-escape chamber 7. Said partition 5 is shown in Fig. 1 as partly raised and can be taken out when necessary. Oil-supply tank 10 is hung in chamber 9 by hangers 13. Said tank has a filling-cap 15 and a faucet 11 at its lower end, which allows the oil to drip in funnel 12, secured to burner 6.

It is obvious that either oil, gas, or a common lamp may be used in chamber 8, or with slight modifications coal may be used in chamber 9.

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

A tank-heater comprising a casing, said casing divided into a combined fuel and air chamber; a combustion-chamber and an exit-flue; a pendent partition between the air-chamber and combustion-chamber; a rearwardly-extending partition separating the combustion-chamber and the exit-flue; grooved guides within the casing; a partition slidably mounted in certain of said guides between the air-chamber and exit-flue and a damper slidably mounted in certain of said guides between the air-chamber and the combustion-chamber.

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Witnesses:

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