

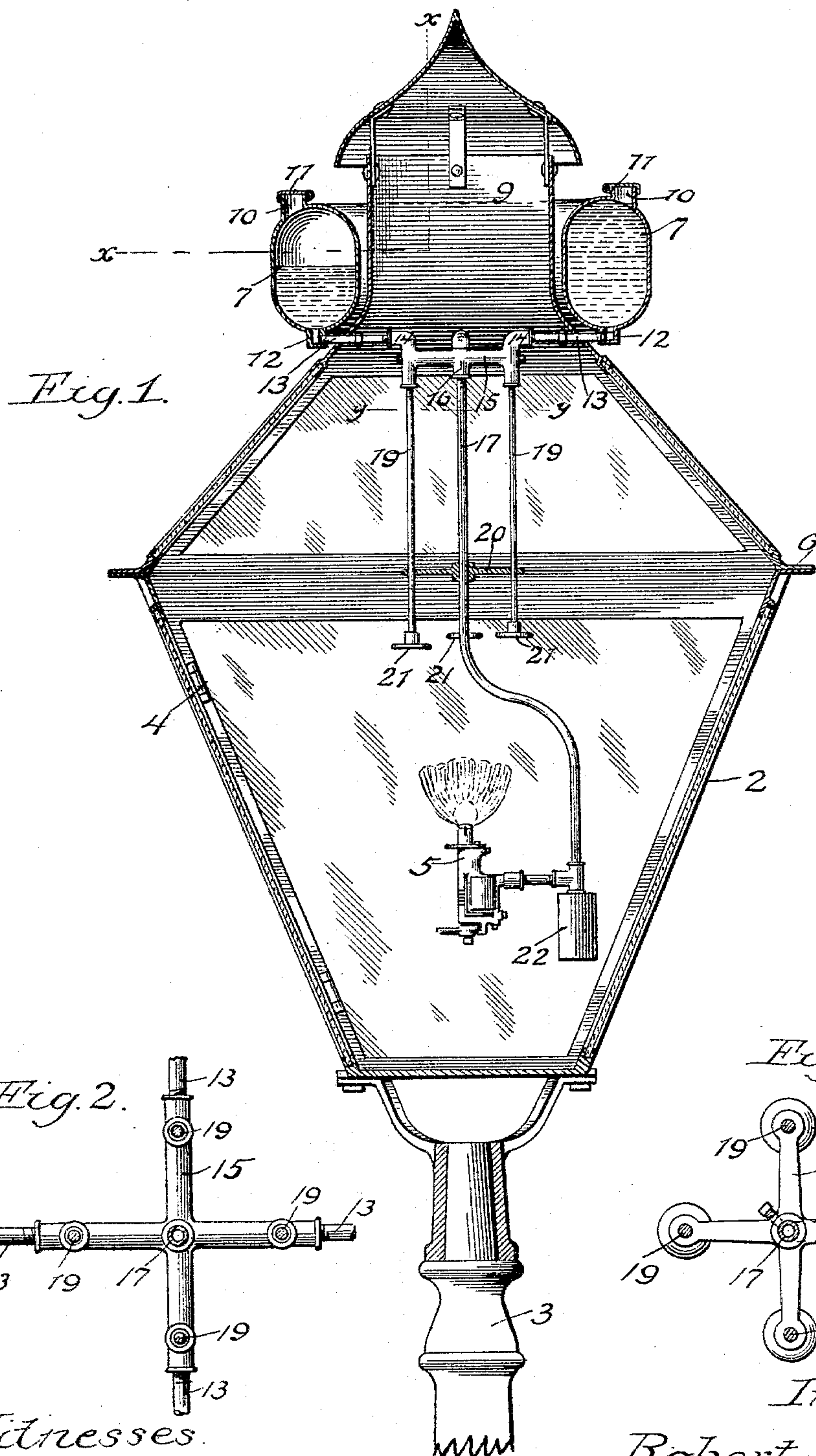
(No Model.)

2 Sheets—Sheet 1.

R. SEEGER.
STREET LAMP.

No. 584,136.

Patented June 8, 1897.



Witnesses.
J. Jessen
McGooley

Inventor.
Robert Seeger.
Paul & Hawley
his Attorneys.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 4.

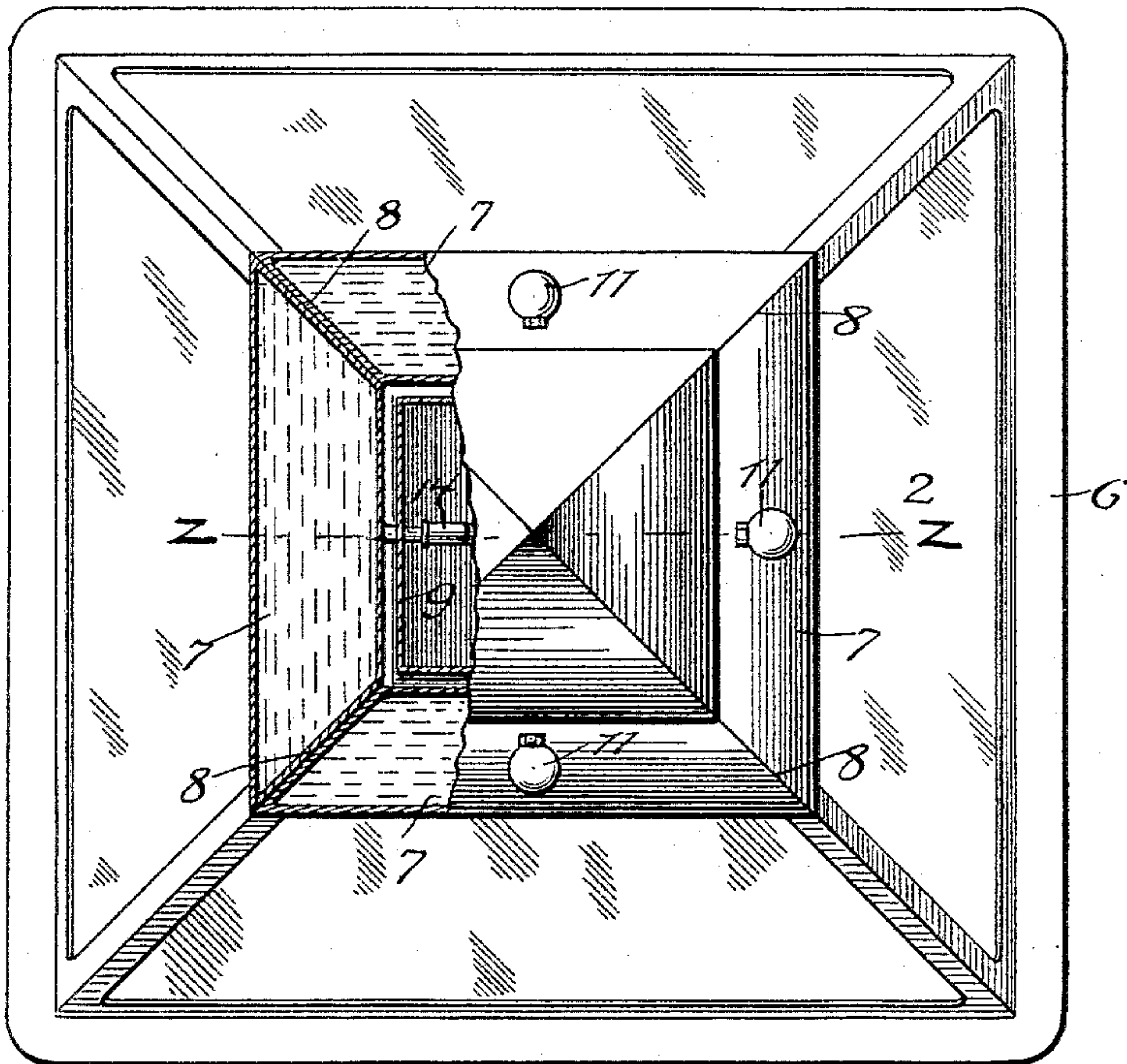
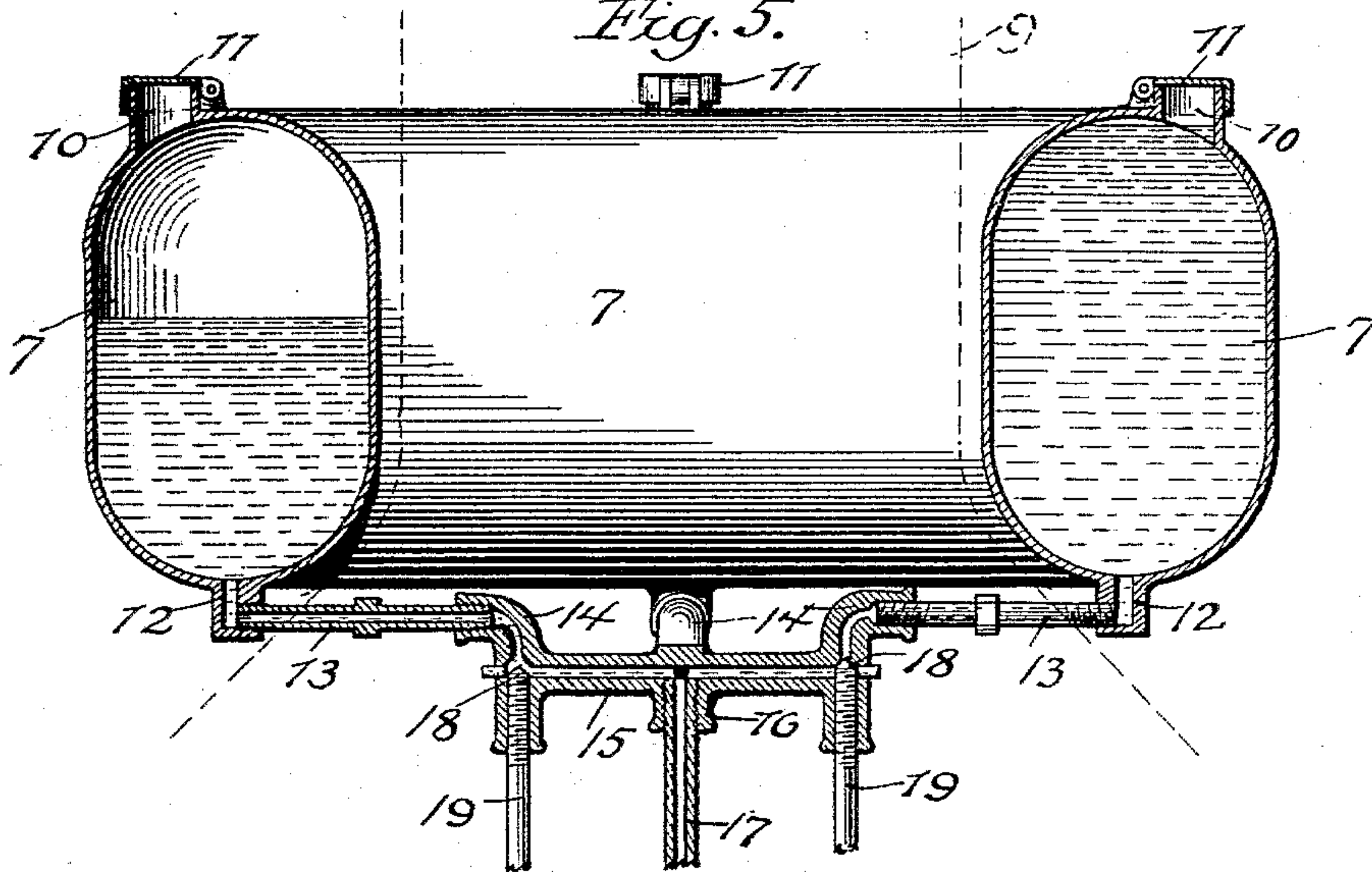


Fig. 5.



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UNITED STATES PATENT OFFICE.

ROBERT SEEGER, OF ST. PAUL, MINNESOTA.

STREET-LAMP.

SPECIFICATION forming part of Letters Patent No. 584,136, dated June 8, 1897.

Application filed November 19, 1894. Serial No. 529,228. (No model.)

To all whom it may concern:

Be it known that I, ROBERT SEEGER, of the city of St. Paul, county of Ramsey, State of Minnesota, have invented certain new and useful Improvements in Street-Lamps, of which the following is a specification.

My invention relates to gasolene lighting apparatus, and particularly to street-lamps.

The object which I have in view is to provide a gasolene-lamp which may be lighted upon different days and burned through a number of nights without being refilled with oil daily; and, further, it is my object to provide a lamp with which a comparatively low grade of gasolene may be used.

My invention consists in general in a street-lamp of the construction and combination of parts, all as hereinafter described, and particularly pointed out in the claims.

The invention will be more readily understood by reference to the accompanying drawings, in which—

Figure 1 is a vertical section of a street-lamp embodying my invention. Fig. 2 is a detail taken from the line *y y* of Fig. 1 and looking upward. Fig. 3 is a similar detail looking downward from the line *y y* of Fig. 1. Fig. 4 is a plan view of the lamp, the same being shown partly in section on the line *x x* of Fig. 1. Fig. 5 is an enlarged vertical sectional detail on the line *z z* of Fig. 1, but showing the tanks and the connections only.

As shown in the drawings, the street-lamp 2 is of the ordinary construction, adapted to be secured upon the top of the post 3 and having a door 4, through which access may be had to the burner 5, which burner may also be of any desired form, though I prefer to employ one of the construction shown and devised by myself. Ordinarily the gasolene-tank in a lamp of this class is placed just about the middle ledge 6 of the lamp, from which position the pipe extends to the burner. I prefer instead to arrange the tanks 7 at a greater height, as a greater head and pressure of oil and gas may be obtained. These tanks 7 are preferably four in number, and as they have beveled ends 8 they may be arranged in the form of a rectangle about the chimney 9 of the lamp. They may be secured together upon the outside, if desired, though I find that by means of the pipe connections they

may be drawn together so firmly as to render other fastening unnecessary. Each tank has a spout 10, and this is closed by a hinged lid or cover 11. In the bottom of each tank I provide a depression 12, and from this a pipe 13 leads to the elbow 14 upon the pipe-spider 15. The ends of these pipes 13 are oppositely threaded, so that when the same are turned the tanks and spider are drawn together. This spider preferably has four arms or pipe portions which lead to the central connection 16 with the supply-pipe 17. In the end of each arm I provide a valve 18, adapted to close against seats provided at the lower ends of the elbow 14 14. By means of these valves the connection of any tank with the central pipe may be closed or opened. The valves are really the ends of the long stems 19, which project downwardly through a guide-spider 20, secured upon the central supply-pipe 17, and each stem has a small hand-wheel 21 on its lower end, which wheel is freely accessible below the open door of the lamp.

The supply-pipe is bent to one side at a point beneath the valve-stem, so that the burner 5 may be arranged directly beneath the upper portion of the pipe and beneath the curve therein. The usual condensation-cup 22 is provided at the lower end of the supply-pipe to catch the water which would otherwise flow into the burner. Owing to the position of the burner beneath the supply-pipe that pipe is heated by the flame to such a degree that the gasolene flowing downward through the same can be actually vaporized, if desired, before it reaches the lower end of the supply-pipe. Hence I am enabled to use a much lower grade of oil. This fact alone enables me to obtain that further advantage of the employment of a number of tanks instead of one only, whereby the tanks may be filled every four days where four tanks are used, it being safe to depend upon the oil being in the fourth tank on the fourth day, as this low-test oil will not evaporate as the higher-proof oils which are at the present time necessarily employed would do. The peculiar advantage of the four tanks lies in the fact that it costs less than one-half to light such a lamp as it does to fill the tanks, and consequently by cutting off three out of every four days of the

last fillers employment a very considerable saving is made in the expense of operating. A further advantage of the four tanks is that in case of injury to one another full tank may be connected with the supply-pipe in its place, so that there is no excuse for leaving a lamp dark as often occurs with other gasoline-lamps when the lamp remains unattended to by the repair-man.

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

1. The combination with the street-lamp proper, of two or more tanks arranged upon 15 the top thereof, a supply - pipe arranged within the lamp, a burner provided upon the lower end of said supply-pipe, and a spider 15 having hollow or pipe arms leading to the respective tanks and having a central connection with said pipe, and valves 19 arranged in the arms of said spider to control the flow of oil from the respective tanks, substantially as described.

2. The combination, in a street-lamp, of

two or more independent tanks having beveled abutting ends, a supply-pipe leading to a burner, and valved connections between the discharge-opening of said tanks and supply-pipe, whereby the abutting ends of said tanks may be drawn closely together and toward said supply-pipe and rigidly secured thereto, substantially as described. 30

3. The combination, in a street-lamp, of two or more independent tanks having beveled abutting ends, a supply-pipe leading to a burner, the casting 15 upon said supply-pipe, the valves 19 therein, the right and left hand connections between said discharge-openings and said casting, substantially as described and for the purpose set forth. 40

In testimony whereof I have hereunto set my hand this 9th day of November, A. D. 1894.

ROBERT SEEGER.

In presence of—

C. G. HAWLEY,
RICHARD PAUL.