

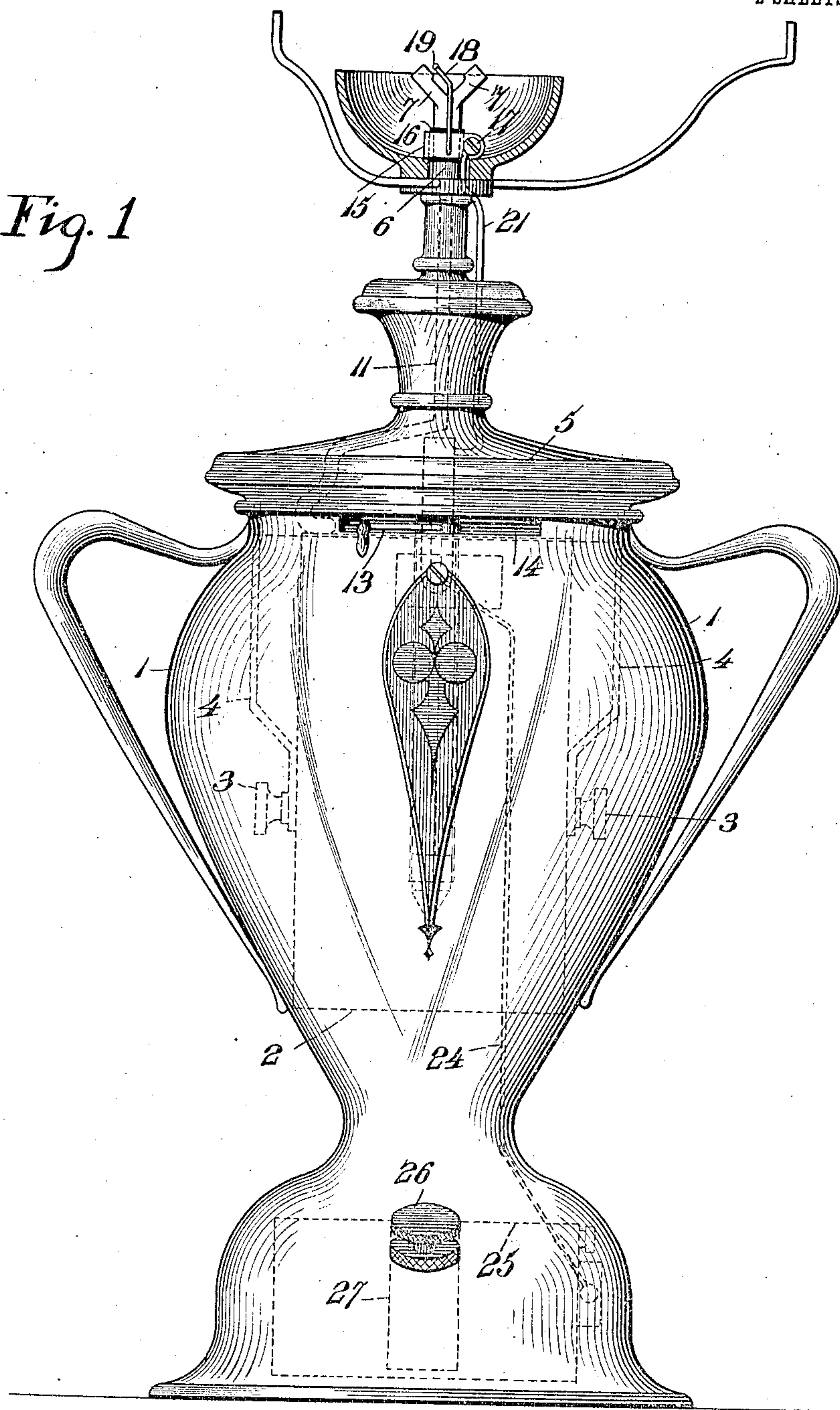
No. 844,607.

PATENTED FEB. 19, 1907.

S. M. MEYER.  
ACETYLENE LAMP.  
APPLICATION FILED JUNE 30, 1905.

2 SHEETS—SHEET 1.

*Fig. 1*



Witnesses  
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2 SHEETS—SHEET 2.

Fig. 2

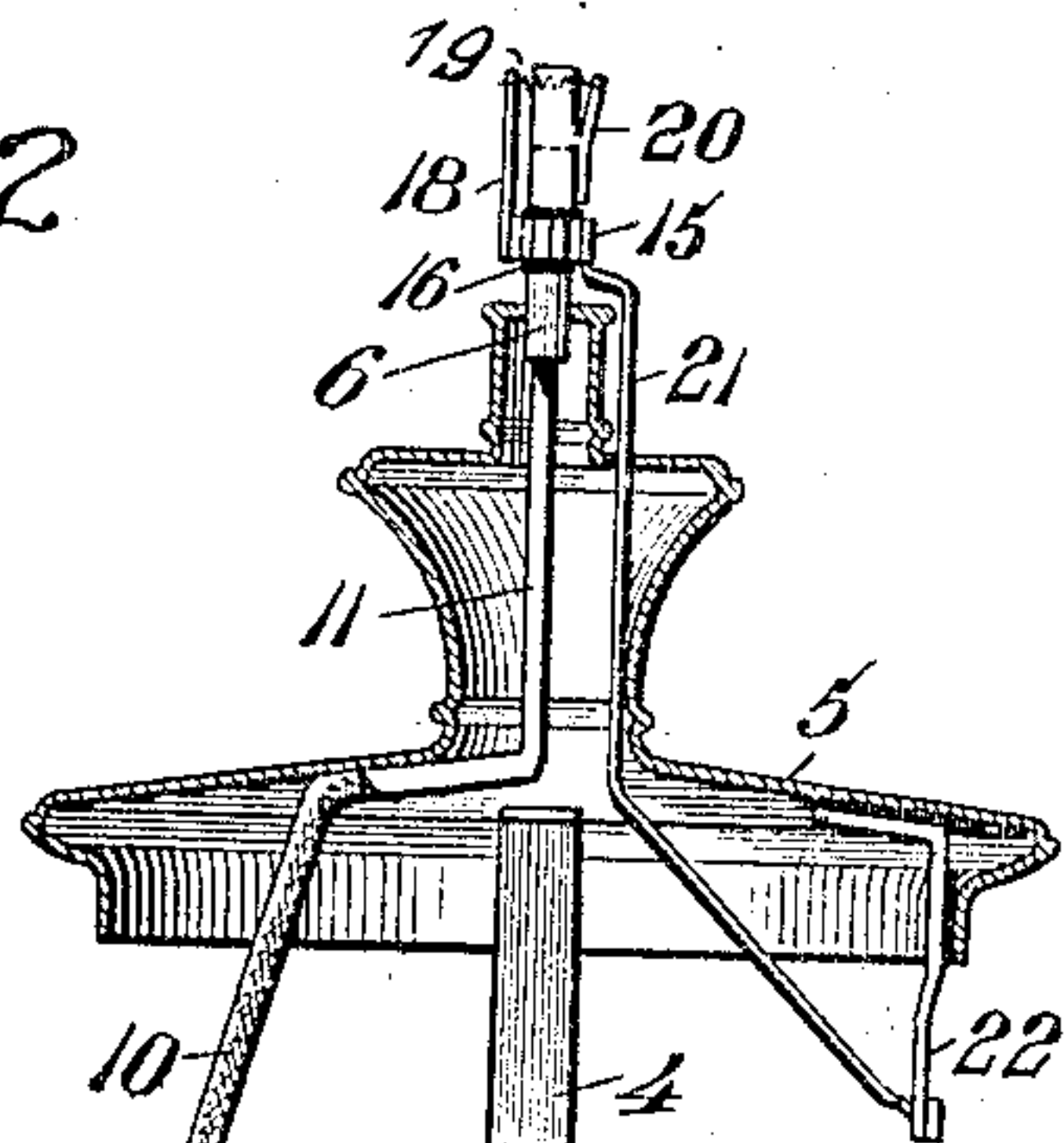


Fig. 3

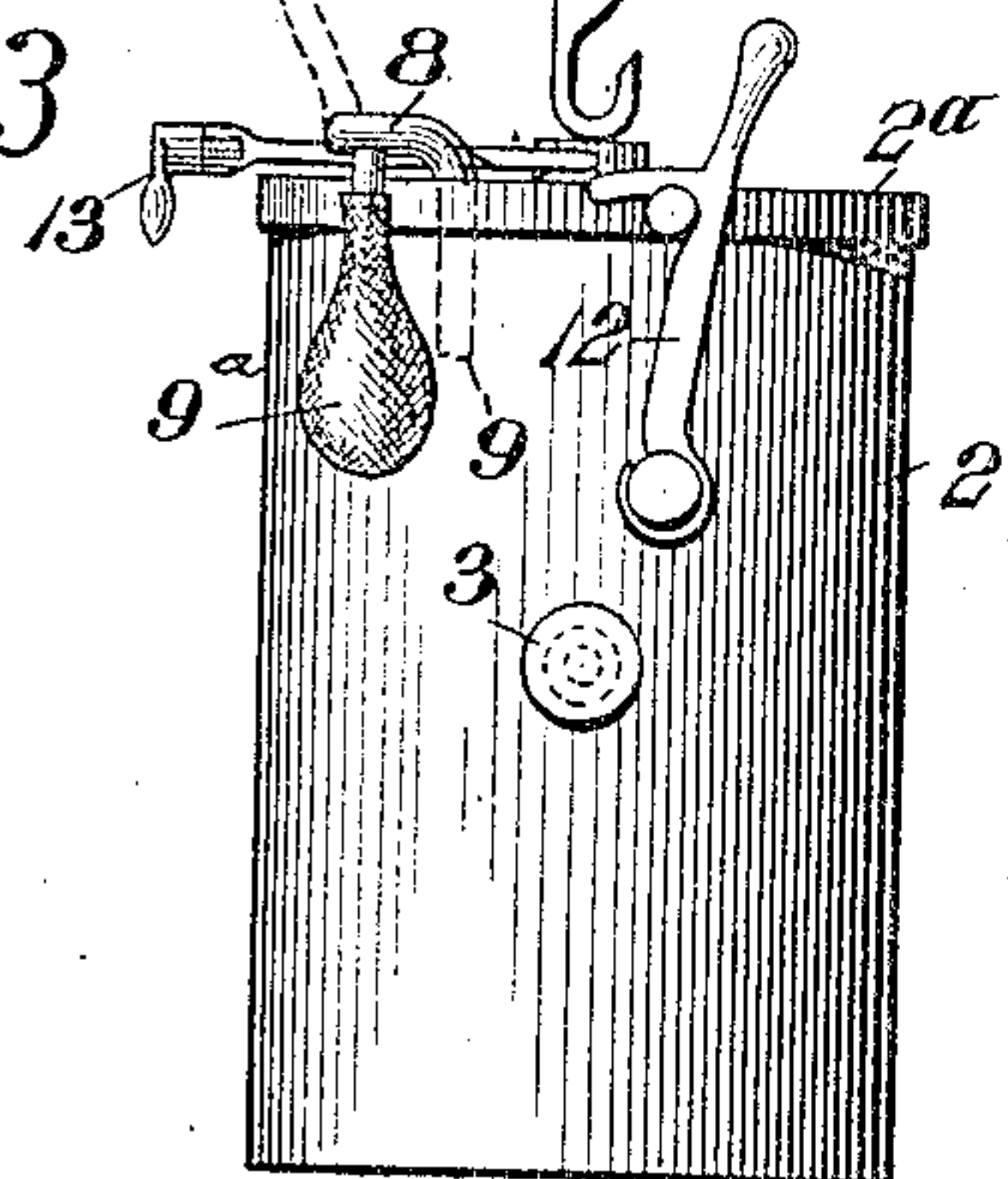


Fig. 4

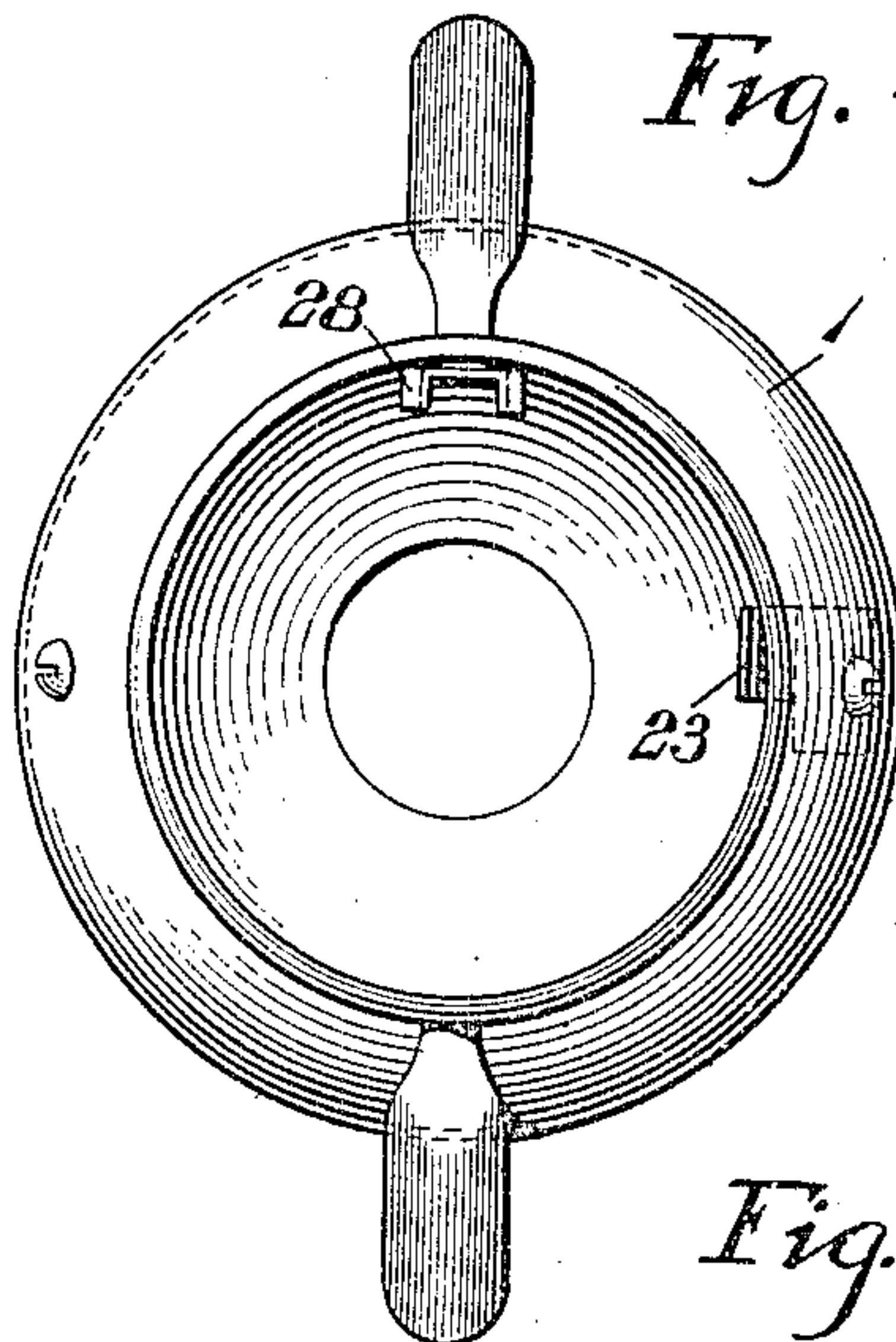


Fig. 5

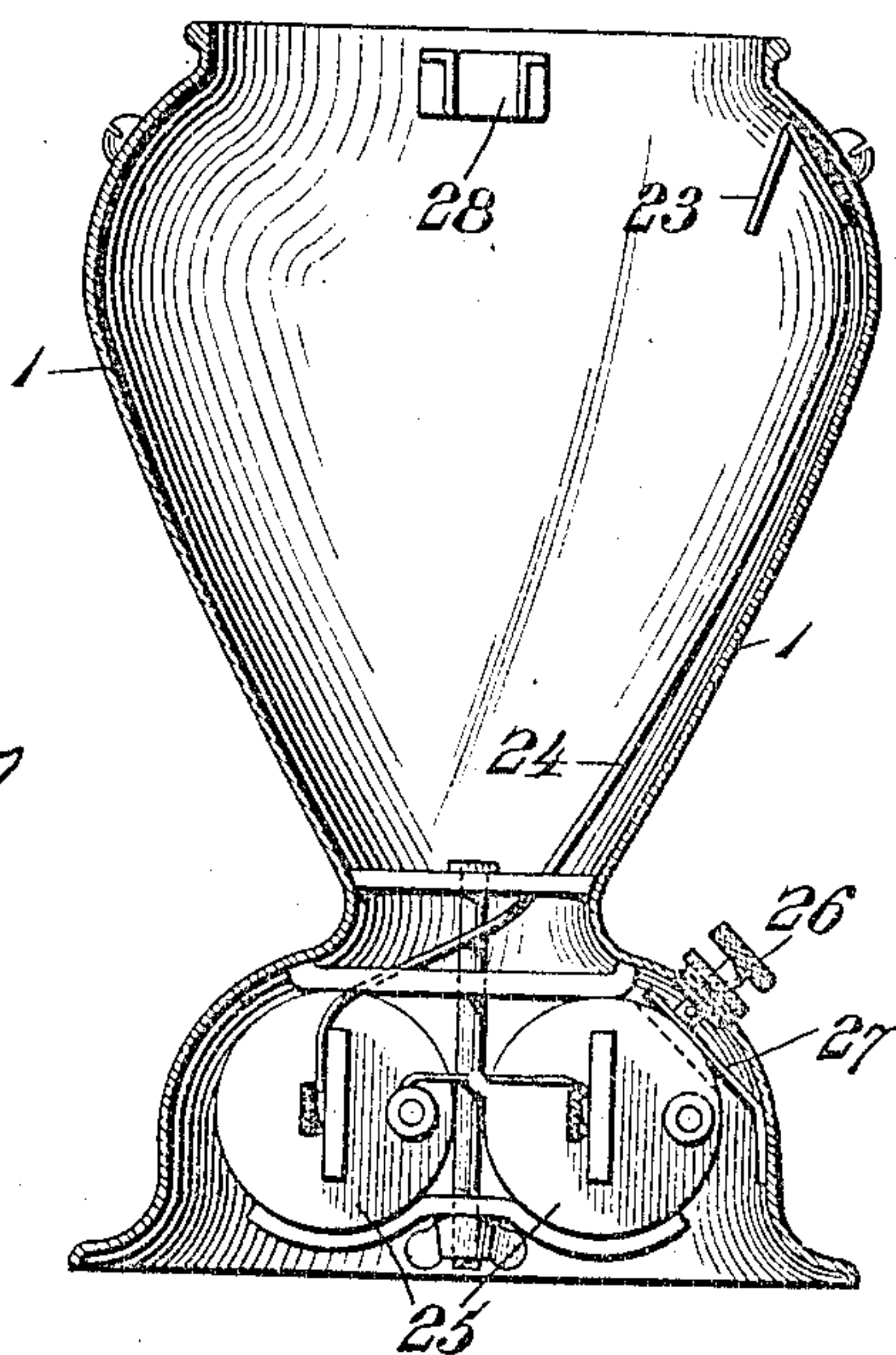


Fig. 6

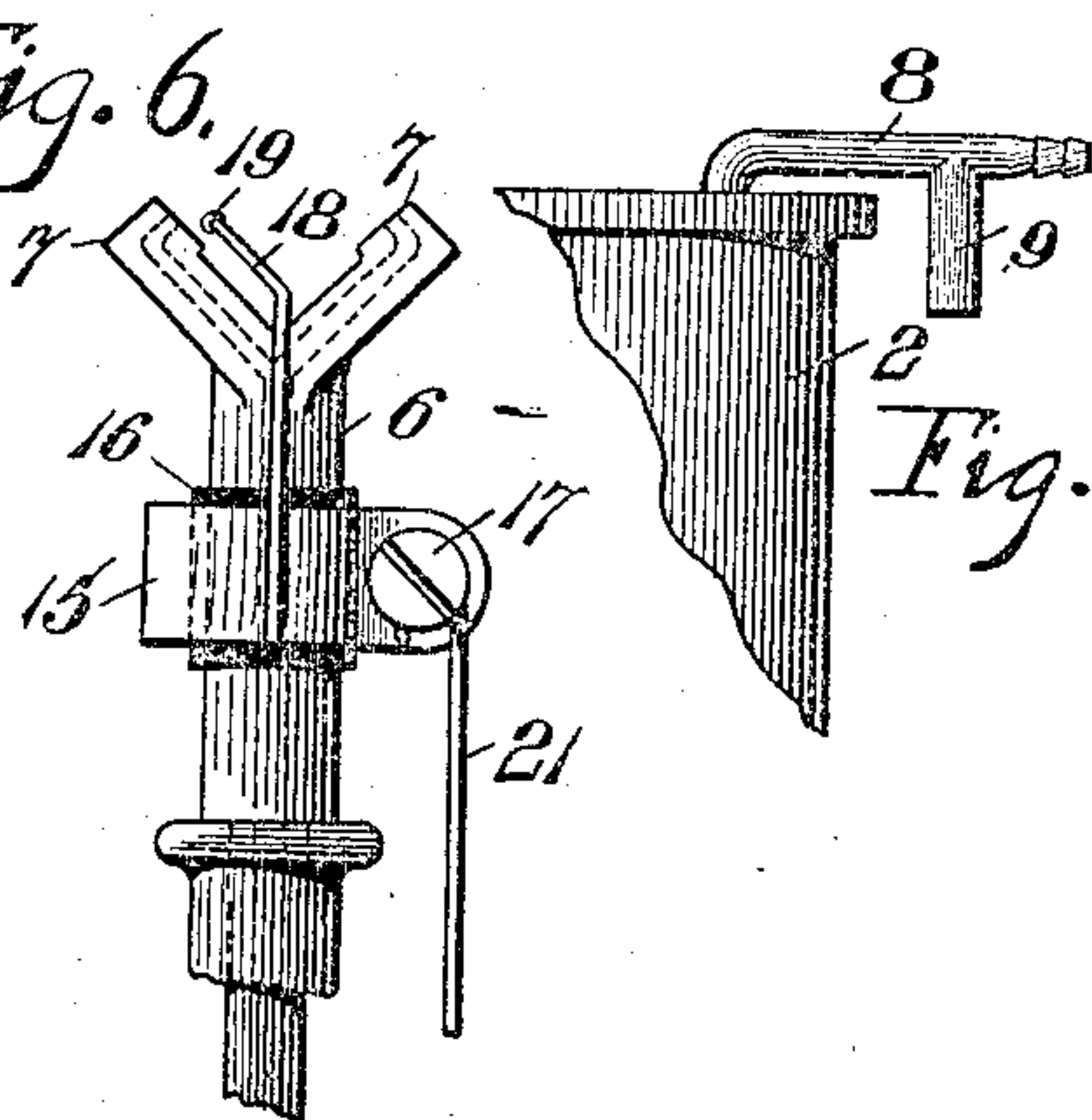
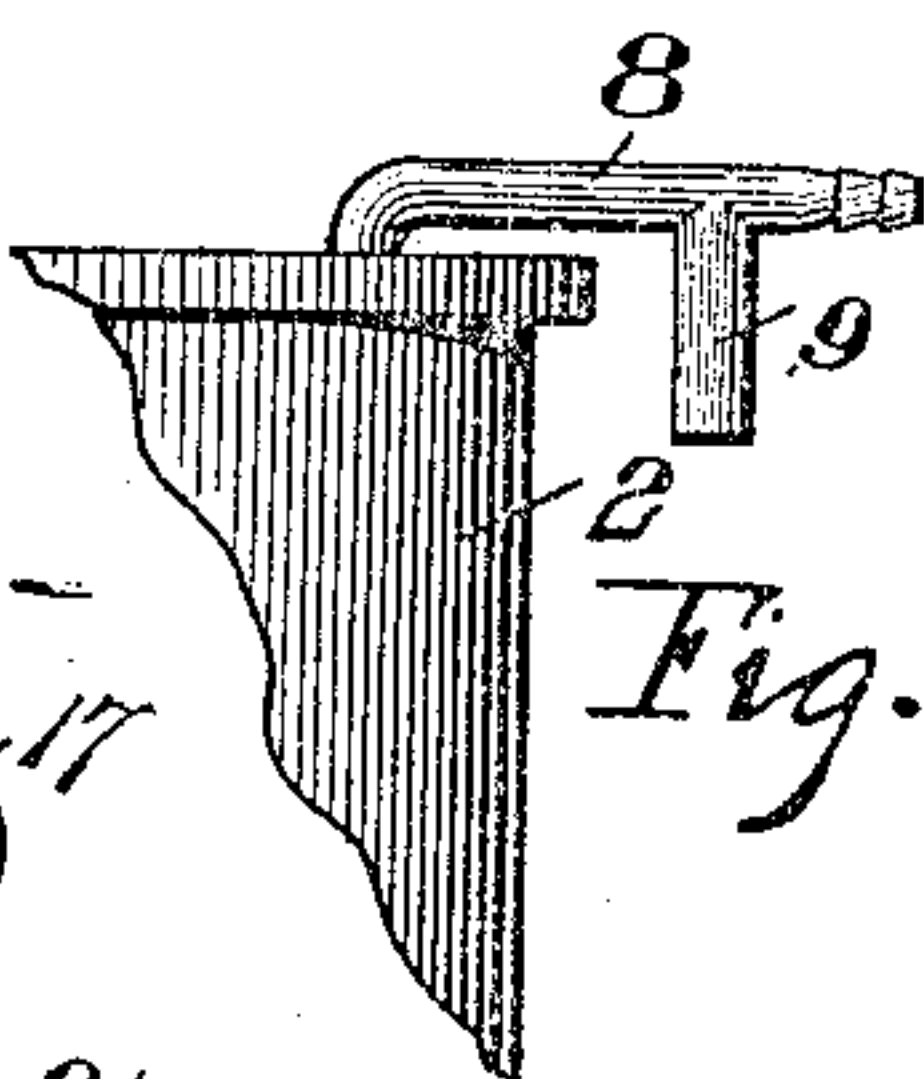


Fig. 7



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# UNITED STATES PATENT OFFICE.

SVEND MARTIN MEYER, OF NEW YORK, N. Y., ASSIGNOR TO GEORGE CLINTON BATCHELLER, OF NEW YORK, N. Y.

## ACETYLENE-LAMP.

No. 844,607.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed June 30, 1905. Serial No. 267,791.

*To all whom it may concern:*

Be it known that I, SVEND MARTIN MEYER, a citizen of the United States, and a resident of the borough of Brooklyn, in the city and State of New York, have invented a new and useful Improvement in Acetylene-Lamps, of which the following is a specification.

A portable acetylene-generator suitable for use as a part of my improved acetylene-lamp is fully represented and described in my application, Serial No. 257,191, filed the 24th of April, 1905, and will be shown and referred to here only sufficiently to elucidate its application and use in the complete lamp to which the present application relates.

The subject of the present invention is an acetylene-lamp adapted for either stationary or portable use and readily detachable from its stand or casing to adapt it for use in an automobile or other vehicle and automatically clamped in its casing in the act of inserting it therein.

The invention further relates to means for automatically connecting or disconnecting the lamp proper with electrical lighting devices, the details of which lighting devices constitute no part of my present invention.

Any suitable electric-lighting device may be used in connection with a burner suitable for acetylene gas mounted on the removable case-cover, to which my complete acetylene-generator is attached.

In the accompanying drawings, Figure 1 is a front view of an acetylene-lamp, illustrating my invention and showing in dotted lines the gas-generator and connections and also the electric-lighting device, which is automatically connected or disconnected by the act of inserting the lamp proper in its casing or removing it therefrom. Fig. 2 is a vertical section of the removable cap and burner forming the upper part of the lamp. Fig. 3 is a front view of the removable generator and its accessories. Fig. 4 is a plan view of the casing or stand with the generator and lamp proper removed. Fig. 5 is a vertical section of the same, showing means of connection with the electric-lighting device. Fig. 6 is a detail elevation of the burner and electric lighter, on a larger scale, looking in a direction at right angles from the view shown in Fig. 2. Fig. 7 is a detail elevation of a portion of the generator and the gas-nozzle

adapted for reception of a flexible tube for connecting it with the burner.

1 may indicate a casing or holder of any form suitable for an acetylene lamp and generator. Said casing may be either portable or stationary or mounted on an automobile or other vehicle. An important object of my invention is to provide an acetylene lamp readily convertible or changeable for optional use in either of these modes. As the casing for one or another purpose differs only in details of form adapting it to its mode or place of use and non-essential to my present invention I have deemed it sufficient for the purpose of illustration to show a casing in the form of a portable or table lamp.

2 indicates the acetylene-generator, which when the parts are assembled is clamped and supported by lugs 3 and hangers 4, depending from the casing cap or cover 5 and engaging said lugs 3.

On the cap or cover 5 is mounted the burner 6, having opposed perforated tips 7 of the common form shown in Fig. 6 and connected with the gas-chamber of the generator by means of a nozzle 8, (shown in Fig. 3 and in detail in Fig. 7,) provided with a drip-nozzle 9, to which is applied a rubber or other pocket 9<sup>a</sup> for the reception of water carried in suspension by the gas. The gas-nozzle 8 is suitably formed at its extremity for the reception of a rubber tube 10, the other end of which is attached to the gas-pipe 11, Fig. 2, leading to the burner 6.

The cover 2<sup>a</sup> of the generator is tightly fixed to the body thereof by clamp-hooks 12, permitting the ready removal of said cover for the purpose of charging the generator with carbide and with water.

The acetylene-gas generator is provided with a customary vertical tube, needle-valve, and drip-cone (indicated by dotted lines in Fig. 1) for regulating the water-supply. This water-valve is operated by a horizontal lever-arm 13, extending through a horizontal segmental notch 14 in the top of the casing, so as to permit the ready introduction and removal of the generator when the cap 5 of the casing is off.

The lamp-burner 6 and its accessories, the cover 5 of the casing on which these are mounted, and the generator 2 suspended therefrom being all connected together are



readily inserted in the selected casing or holder suitable for the purpose for which the lamp is to be used, whether as a portable or table lamp, a stationary house-lamp, or an automobile-lamp, and as readily transferred from one to the other. When so inserted in the casing, a socket-lug 28 on the interior of the casing engages one of the hangers 4, so as to clamp the parts together and guide and retain the cap 5 and its attached parts in proper position to complete the electric connection, which will now be described.

On the burner 6 a metal ring 15 is clamped over a bushing 16 of insulating material by means of a screw 17. On the ring 15 is mounted a metal rod or standard 18, carrying one end of the incandescing coil 19, which is stretched across one fork of the burner, as illustrated in Figs. 2 and 6, without contact slightly below the gas-outlet, so as not to be exposed to the intense heat of the flame and in such proximity as to ignite the gas when rendered incandescent by the closing of the electric circuit. The other end of the incandescing coil is "grounded" by attachment to a metal rod or standard 20, Fig. 2, mounted directly on the burner, and thereby in electric connection with the body of the lamp.

An insulated wire 21 is clamped by one end under the screw 17 and connected by its other end to an insulated elastic contact-plate 22, which when the cover is placed on the casing engages electrically with an insulated contact-plate 23, connected by an insulated wire 24 with one pole of the battery 25 in the base of the casing. The parts being thus in position, in order to light the lamp it is only nec-

essary to push the button 26, which presses the contact-spring 27 into electric contact with the opposite pole of the battery, thereby completing the circuit by the medium of the body of the lamp through the incandescing coil 19.

In practice the burners, together with the lighting-coil, are readily renewed when necessary by detaching the wire 21 from the screw 17, unscrewing the burner 6 from the pipe 11 and replacing it with a new one.

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

1. The combination of a suitable casing, a removable cover therefor, an acetylene-gas burner mounted on the cover, an acetylene-generator suspended from the cover within the casing and means for securing the combined cover and generator to the casing, substantially as described.

2. An acetylene-lamp comprising a suitable casing, a removable cover therefor, a complete acetylene-generator detachably suspended to the cover and removable therewith from the casing, a burner mounted on the cover, means for connecting the gas-outlet with the burner and means for locating and securing the cover and generator-casing, substantially as described.

Signed at New York this 28th day of June, 1905.

SVEND MARTIN MEYER.

Witnesses:

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