

O. A. LOVELESS.
PORTABLE LAMP.
APPLICATION FILED APR. 3, 1909.

929,454.

Patented July 27, 1909.

2 SHEETS—SHEET 1.

Fig. 1

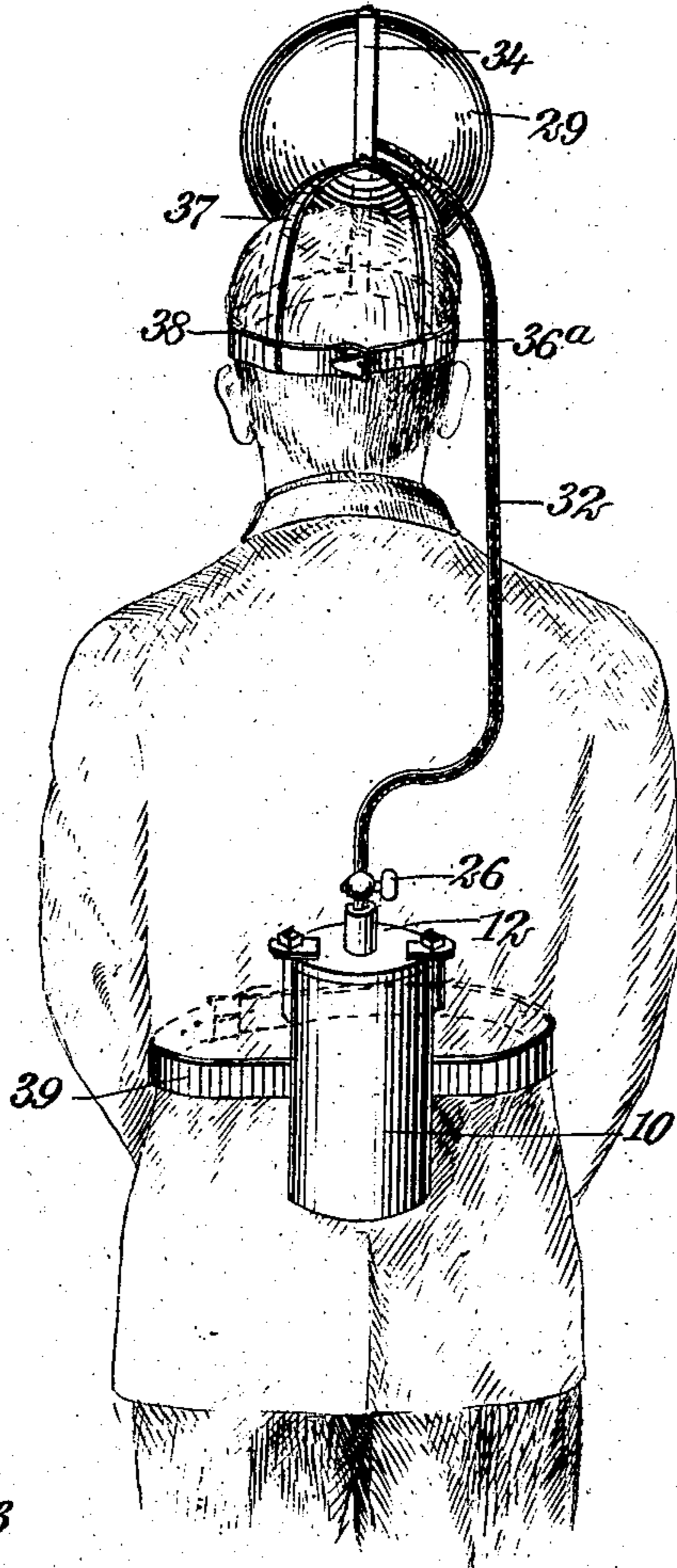


Fig. 3

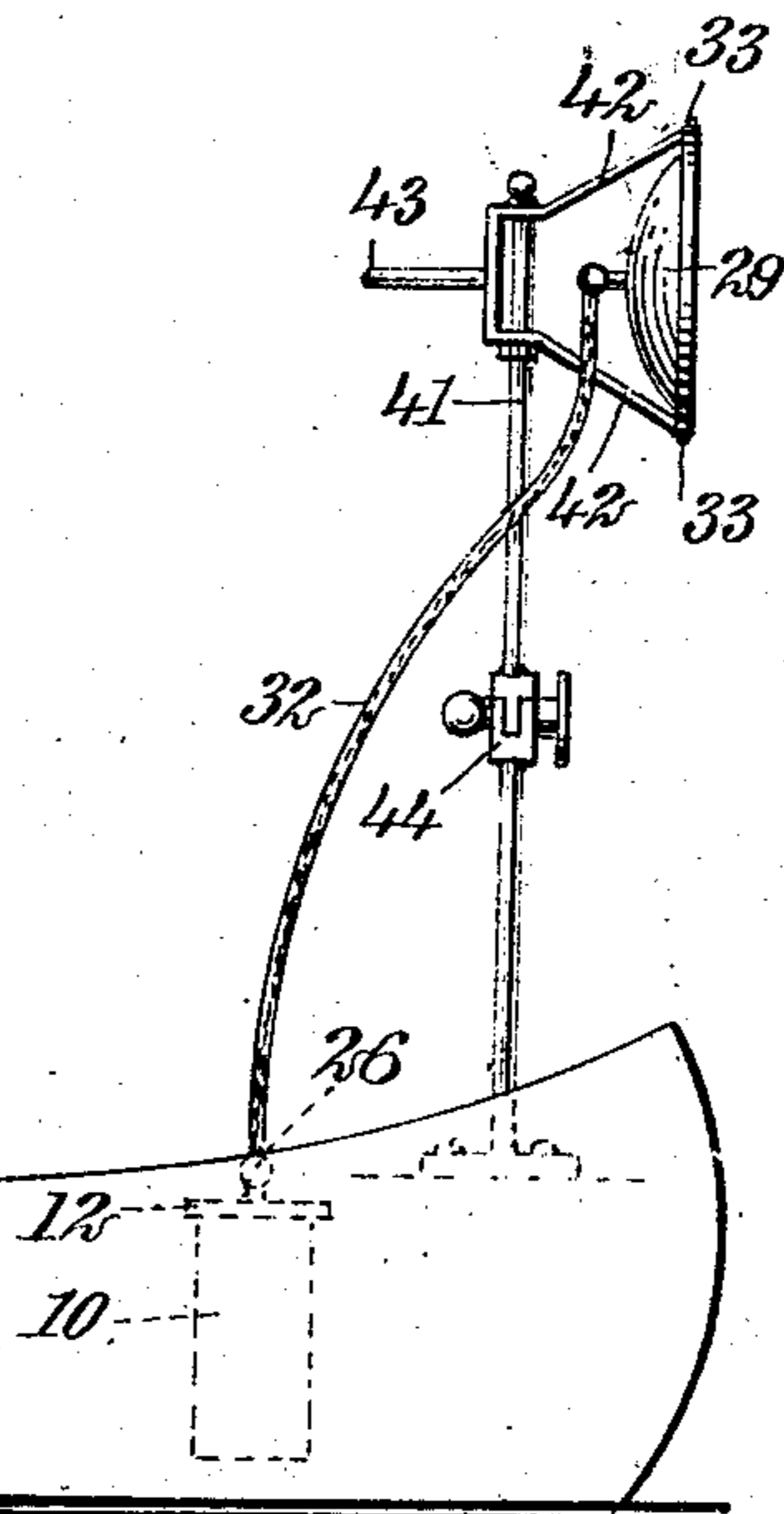
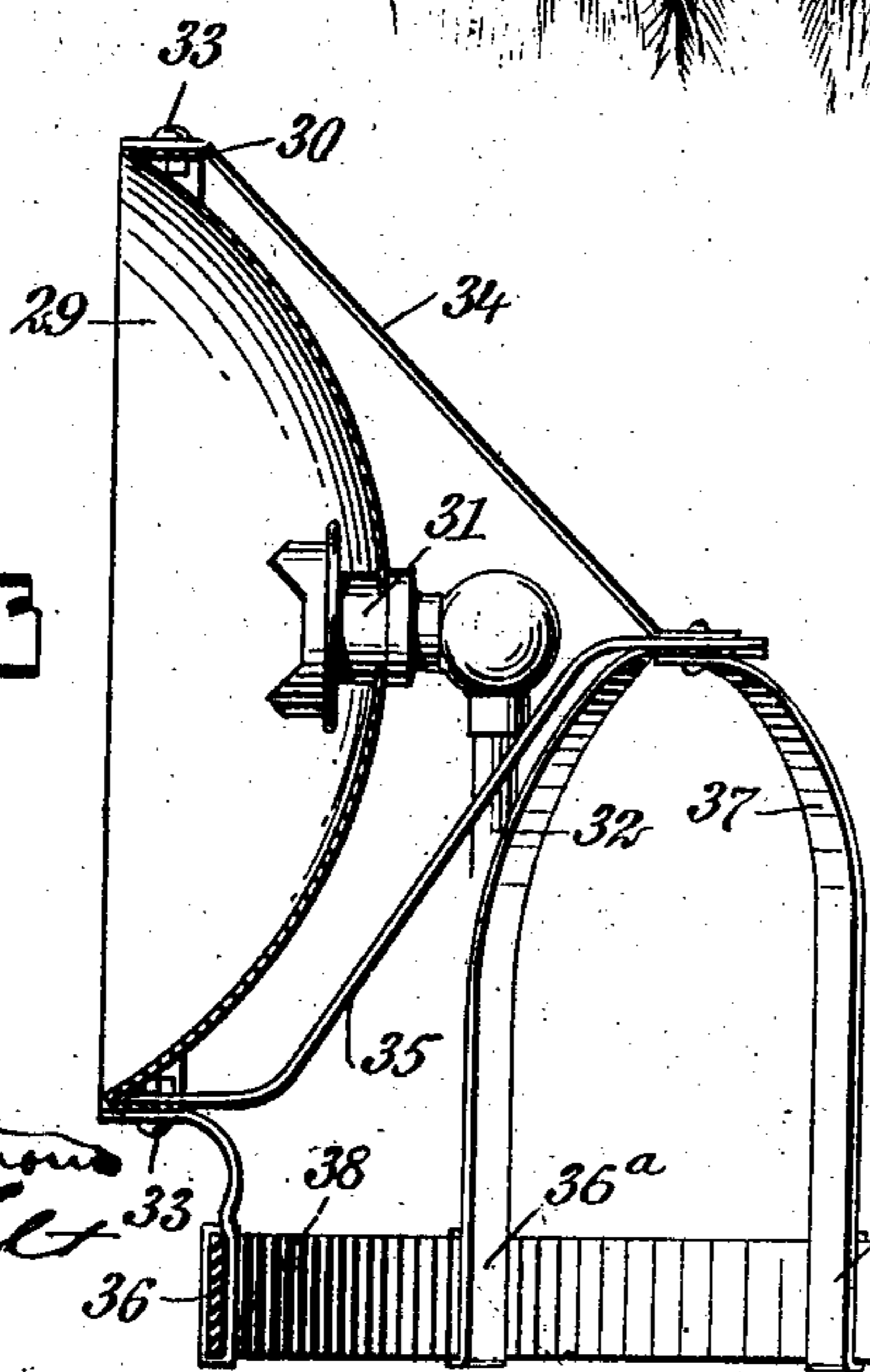


Fig. 2

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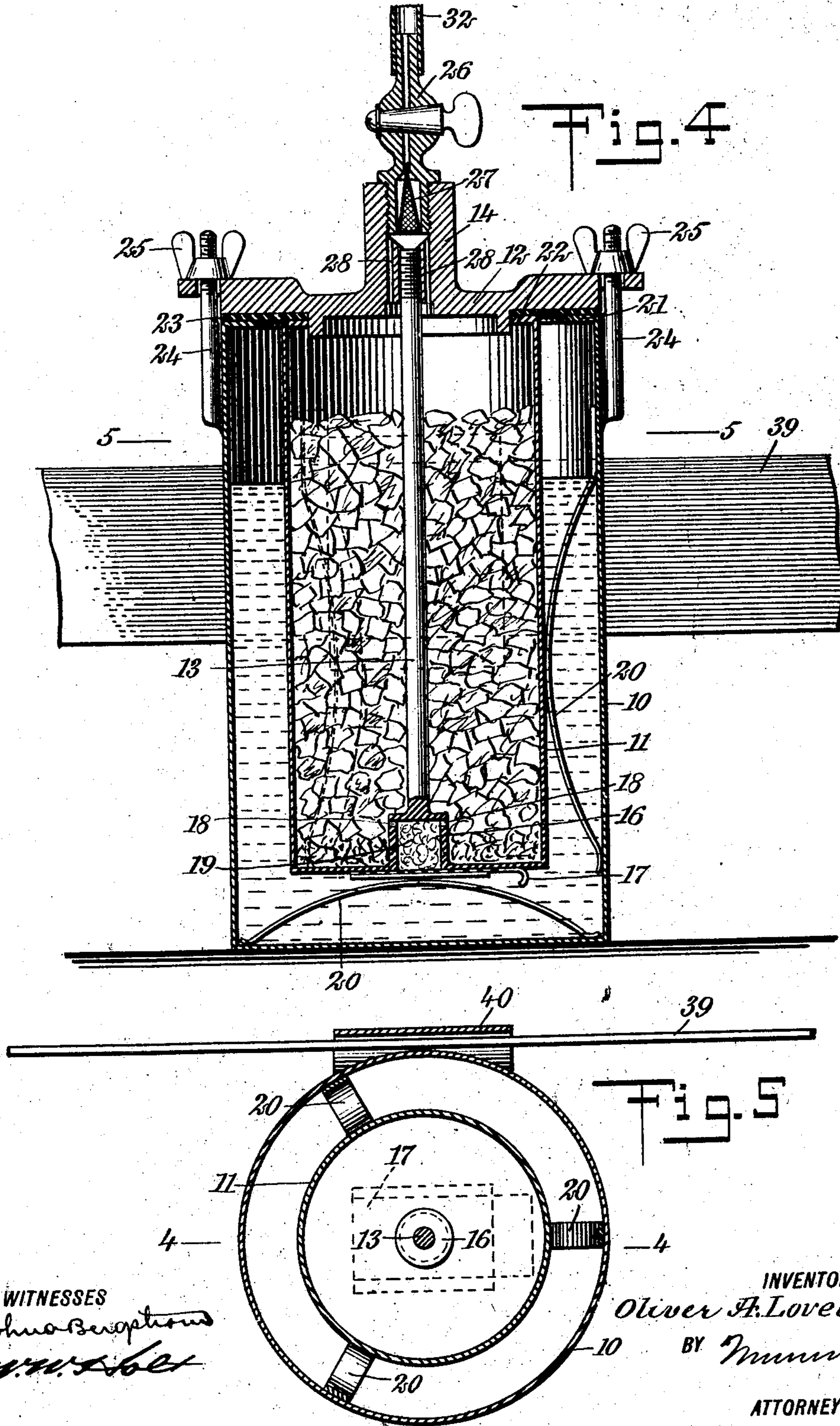
PORTABLE LAMP.

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UNITED STATES PATENT OFFICE.

OLIVER A. LOVELESS, OF WATERSMEET, MICHIGAN.

PORTABLE LAMP.

No. 929,454.

Specification of Letters Patent.

Patented July 27, 1909.

Application filed April 3, 1909. Serial No. 487,639.

To all whom it may concern:

Be it known that I, OLIVER A. LOVELESS, a citizen of the United States, and a resident of Watersmeet, in the county of Gogebic and State of Michigan, have invented a new and Improved Portable Lamp, of which the following is a full, clear, and exact description.

The invention is an improvement in portable lamps for campers, hunters, etc., and consists in general of a portable gas generator, preferably acetylene, a reflector having an inner concave reflecting surface, and a burner arranged within the reflector at the center and having a supply connection with the generator, the reflector being permanently open at the front for the escape of heat, and with the walls of the reflector around the burner imperforate to prevent the passage of the air therethrough in moving forward and thus extinguishing the light.

The invention further contemplates the construction of the reflector in a manner to be interchangeable with either a helmet or crown and a supporting standard:

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 illustrates my improved portable lamp as assembled and constructed to be carried on the person; Fig. 2 is a view of the same as applied to a supporting standard in the bow of a boat; Fig. 3 is a central vertical section through the reflector and crown shown in Fig. 1; Fig. 4 is a central vertical section through the acetylene generator substantially on the line 4—4 of Fig. 5; and Fig. 5 is a cross-section of the same on the line 5—5 of Fig. 4.

A portable generator for the production of acetylene gas forms a feature of the invention, and, as shown in detail in Fig. 4, embodies in its construction an outer water tank 10, an inner calcium carbide tank 11 and a cover 12, the cover being connected to and supporting the carbide tank by a central upright stem 13 which is threaded into the outer central boss 14 of the cover and is formed integral or otherwise rigidly attached with the walls of an upwardly-extending pocket 16 formed in the base of the tank 11, the said pocket being closed at the bottom of the carbide tank by a perforated slide 17 and communicating at its upper end through perforations 18, with the carbide tank. The slide 17 admits of the passage of water into

the pocket and retains therein a fibrous absorbent material 19. In addition to the support afforded the carbide tank by the stem 13, this tank is further supported from the water tank at both the sides and bottom by bowed springs 20. Both the water and carbide tanks have inwardly-turned flanges 21 and 22 respectively, providing a seat for a gasket 23 interposed between the tanks and cover, and forming a gas-tight joint when the cover is secured in place. This securing of the cover is accomplished by the upwardly-projecting studs 24 attached to the side of the water tank and having thumb-nuts 25 bearing on the upper face of the cover.

In the boss 14 is threaded a manually-controlled cock 26, the inner stem or threaded portion of which is counterbored or enlarged to receive a conical screen 27, which operates to strain the gas as it passes from the generator. The gas leaving the carbide passes through passages 28 of the cover, arranged about the upper threaded portion of the stem 13.

A dished reflector 29 is constructed with a rearwardly-turned marginal flange 30 and is provided at the center with a burner 31 with which the generator connects through a flexible tube 32. The front of the reflector 29 remains permanently open in order that the heat from the burner may rapidly escape, and the walls of the reflector around the burner are imperforate, which prevents the air from blowing through the reflector and extinguishing the light.

In that form of my invention shown in Figs. 1 and 2, the marginal flange 30 of the reflector is detachably connected by screws or bolts 33, to inwardly-converging arms 34 and 35, the arm 35 being made in two sections, with the lower section provided with a loop 36 and the upper section, together with the arm 34, attached to the top central portion of the crown 37. The rivet or other similar device connecting the arms 34 and 35 to the crown also passes through and secures the head members of the crown together at the point of intersection. The lower ends of these head members are each provided with a loop 36^a, similar to and in a plane with the loop 36, all of which receive an adjustable flexible belt 38 to secure the crown to the head. When the reflector is applied to the crown, the generator is strapped about the waist, for which purpose a waist-belt 39 is provided and passes

through a keeper 40 secured to the side of the water tank 10.

In Fig. 2 I have shown the lamp applied to a boat, for which purpose the boat is provided with a standard 41 secured within the bow or stern and having outwardly-diverging arms 42 connected together at their inner ends and revoluble on the upper portion of the standard, at which point the joined portion of the arms is provided with a handle 43, to swing the arms laterally to any angle. The standard is composed of two sections adjustably pivoted or hinged together as indicated at 44 to swing sidewise in a vertical plane. In removing the lamp from the body appliance to the boat, the screws 33 are removed, which release the reflector, and the latter is secured by these screws in the same manner to the arms 42. The waist-belt is withdrawn from the acetylene generator and the generator seated in the boat. With the lamp thus mounted, the light may be thrown to any desired point.

Having thus described my invention, I

claim as new and desire to secure by Letters Patent:

1. The combination of a portable gas generator, a dished reflector having a rearwardly-turned flange, a burner in the reflector having a supply connection with the generator, and a support for the reflector having outwardly extending arms, connected to the flange.

2. The combination of a gas generator, a crown having an adjustable head strap and provided with outwardly and forwardly extending arms, a reflector connected to and supported on the outer end portions of the arms, a burner within the reflector, and a supply tube passing from the generator to the burner.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

OLIVER A. LOVELESS.

Witnesses:

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