

J. DILLEN.
Derrick Lamp.

No. 102,663.

Patented May 3, 1870.

Fig. 1

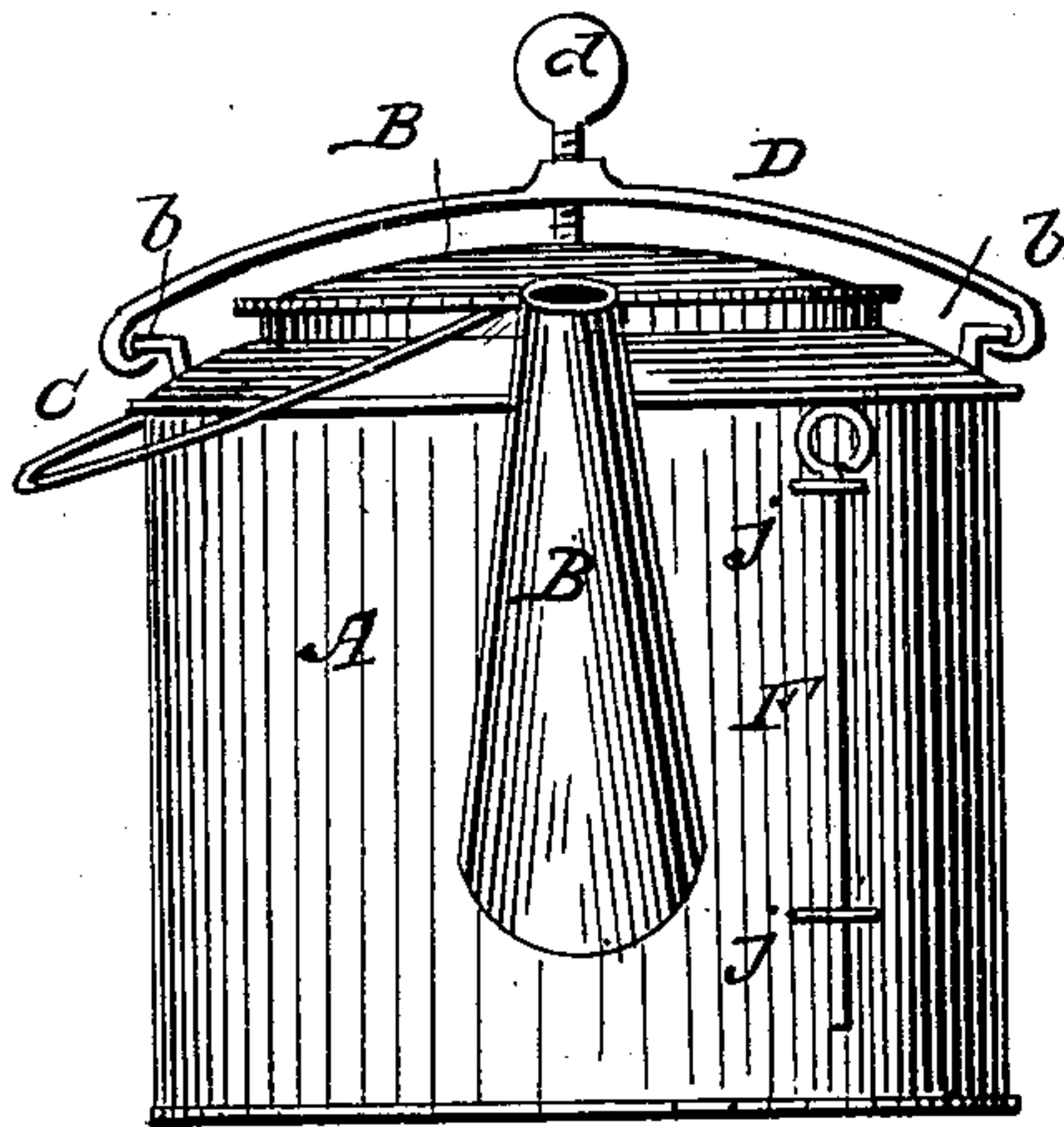
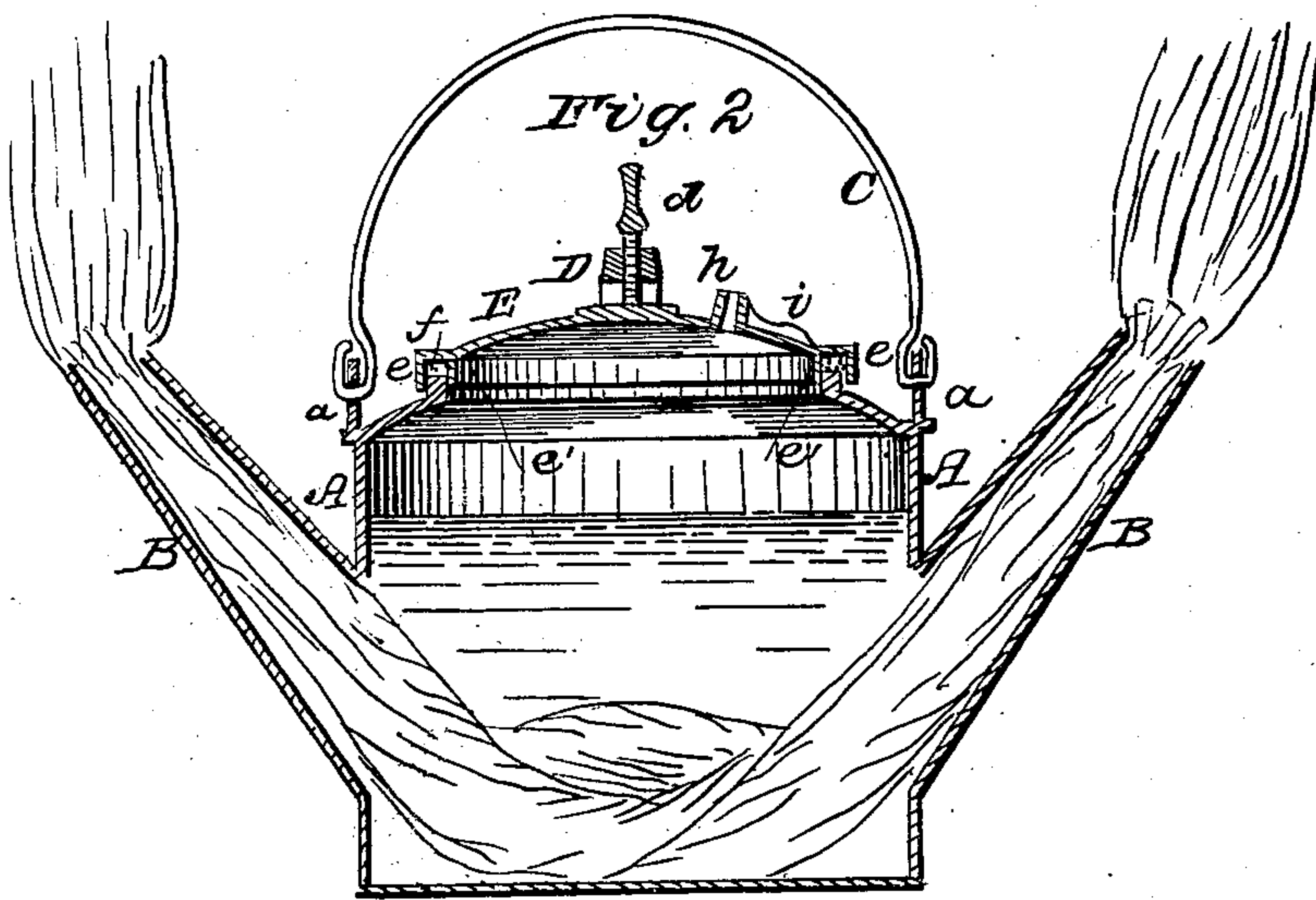


Fig. 2



Witnesses.

Charles Poole.
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JONATHAN DILLEN, OF PETROLEUM CENTRE, PENNSYLVANIA.

Letters Patent No. 102,663, dated May 3, 1870.

IMPROVEMENT IN SAFETY DERRICK-LAMPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JONATHAN DILLEN, of Petroleum Centre, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Safety Derrick-Lamps, and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 represents an outside view of the lamp as an article of manufacture and trade, ready for the market.

Figure 2, a sectional view vertically through the center of the lamp, showing the mode of securing and ventilating the lid or cover and the wick-tubes, &c.

My invention relates to hanging-lamps or torches for illuminating places out of doors, especially in and about derricks, and machinery in the oil regions, whereby explosions are more dangerous and destructive to life and property than in most other places; and

It consists in making the body of the lamp with two or more wick-tubes, cast all together of malleable iron, or other strong and durable metal, with lugs or ears on which to hook a clamp, for securing firmly the lid to the body.

Also in providing a ventilating-tube and shield in the cover, for the escape of gas, and the double flange, for holding the packing between the lid and body.

To enable others to make and use my invention, I will describe it more fully, referring to the drawings and the letters marked thereon.

The body A may be made of malleable cast-iron, or other durable tenacious metal, cast with the wick-tubes B B on.

Also the ears a a, for the bail C to be inserted, and

the lugs or hooks, b b, for the clamp-bar D to hook onto, to secure the cover E firmly on the body by a thumb-screw, d, in the center of the clamp-bar D.

The lid or cover E is provided with a double-rim e e, in which the rubber gasket f f, or other elastic packing, is secured, so that the cover will fit on gas-tight, the cover being made crowning, and thickened up in the central portion to give it strength where the clamp-screw d, bears upon it, and is provided on one side of the center with a small vent, through a tube h, on one side of which is a shield, i.

On the outside of the body of the lamp A, two or more loops or eyes j j may be cast, in which to insert a rod F, or a hook, or any suitable instrument for trimming the lamp.

Any desired number of wick-tubes may be made and used, and the gas generated by the heat of the tubes, within the body of the lamp, will escape at the vent, and, if it takes fire at the tube, it will burn freely and help to illuminate the place, without the slightest danger of exploding the lamp or setting fire to the derrick.

What I claim as my invention, and desire to secure by Letters Patent, is—

Making safety derrick-lamps of tenacious metal, when all the parts are constructed and arranged in the manner herein described and shown.

In testimony whereof I hereunto subscribe my name.

JONATHAN DILLEN.

Witnesses:

JAMES H. SMITH,
EDWIN A. STEVENS.