

E. BERT.
COMBINED HORN AND LAMP.
APPLICATION FILED JAN. 12, 1904.

4 SHEETS—SHEET 1.

Fig. 2.

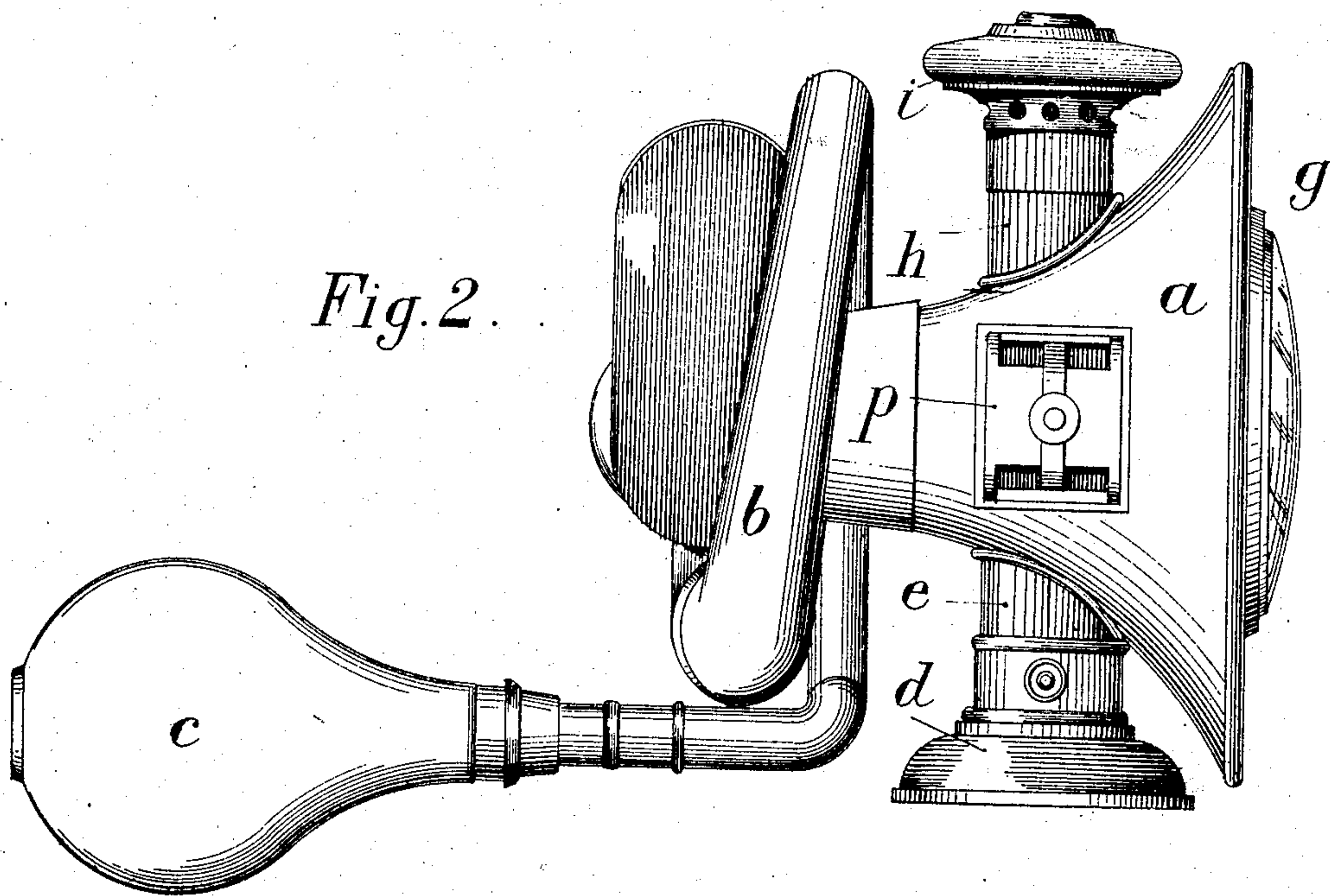
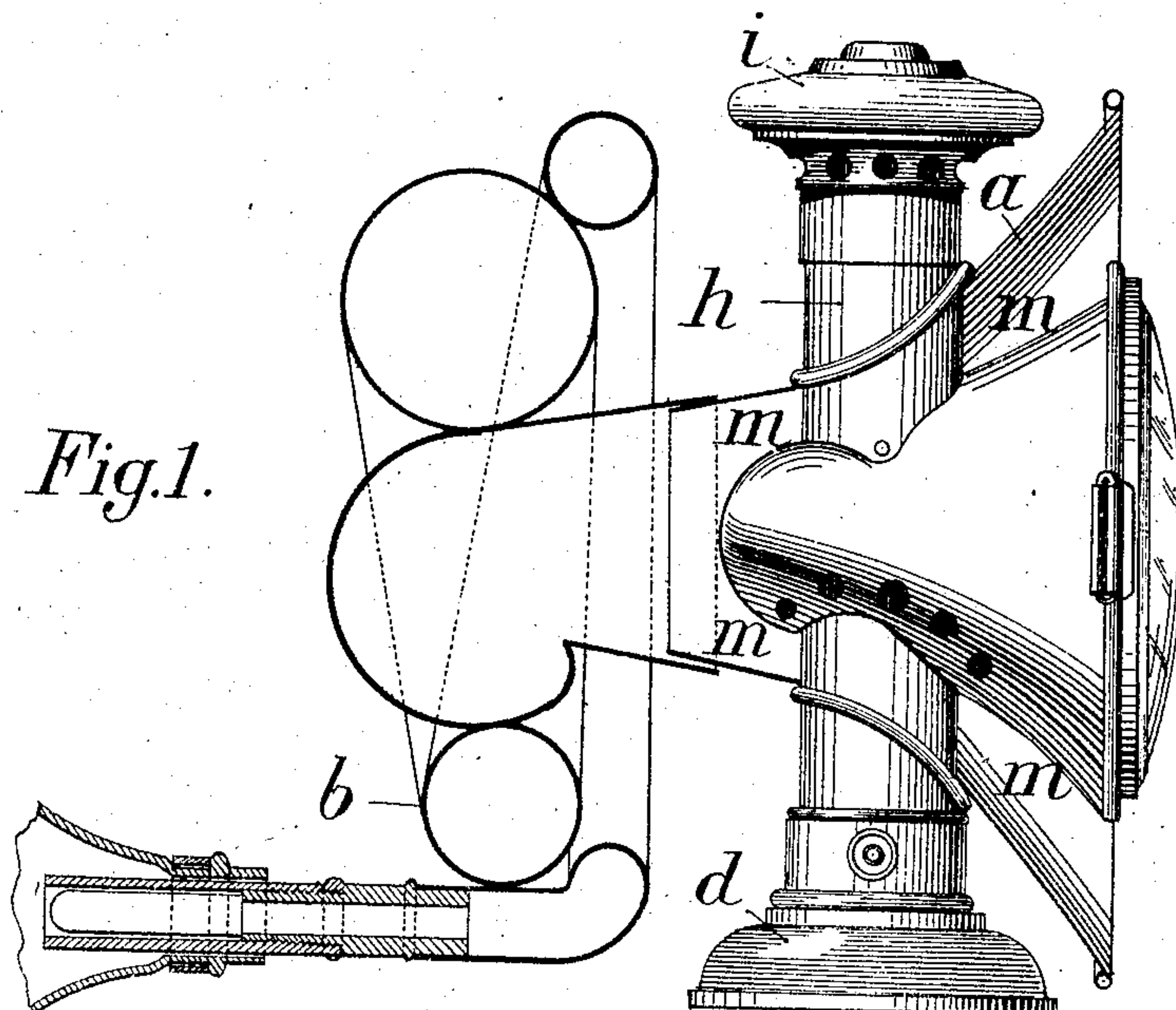


Fig. 1.



Witnesses:
Anton Huetner.
Ed. Huetner.

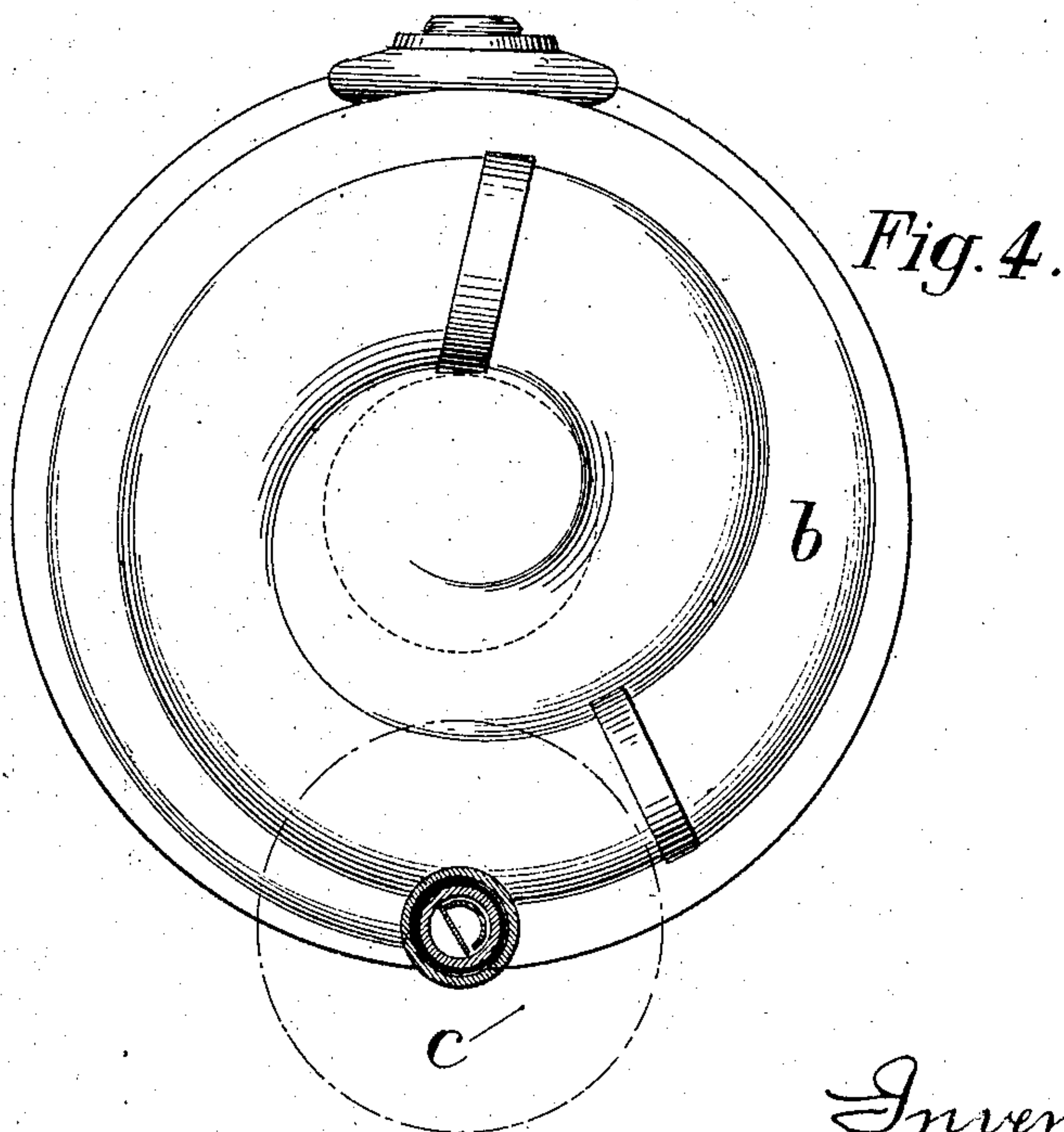
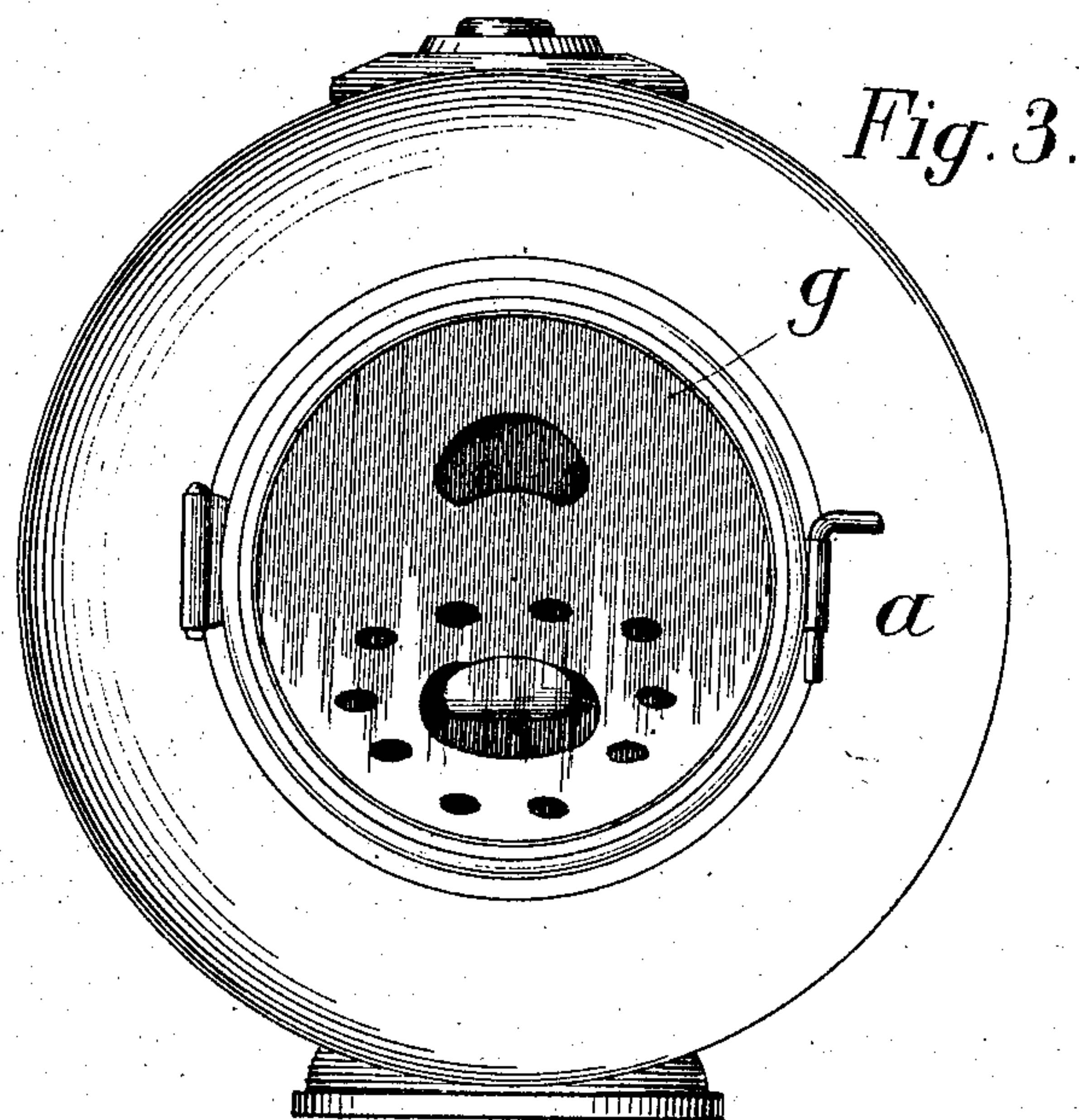
Inventor:
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by Georgii Massie
His attorneys.

No. 780,491.

PATENTED JAN. 24, 1905.

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4 SHEETS—SHEET 2.



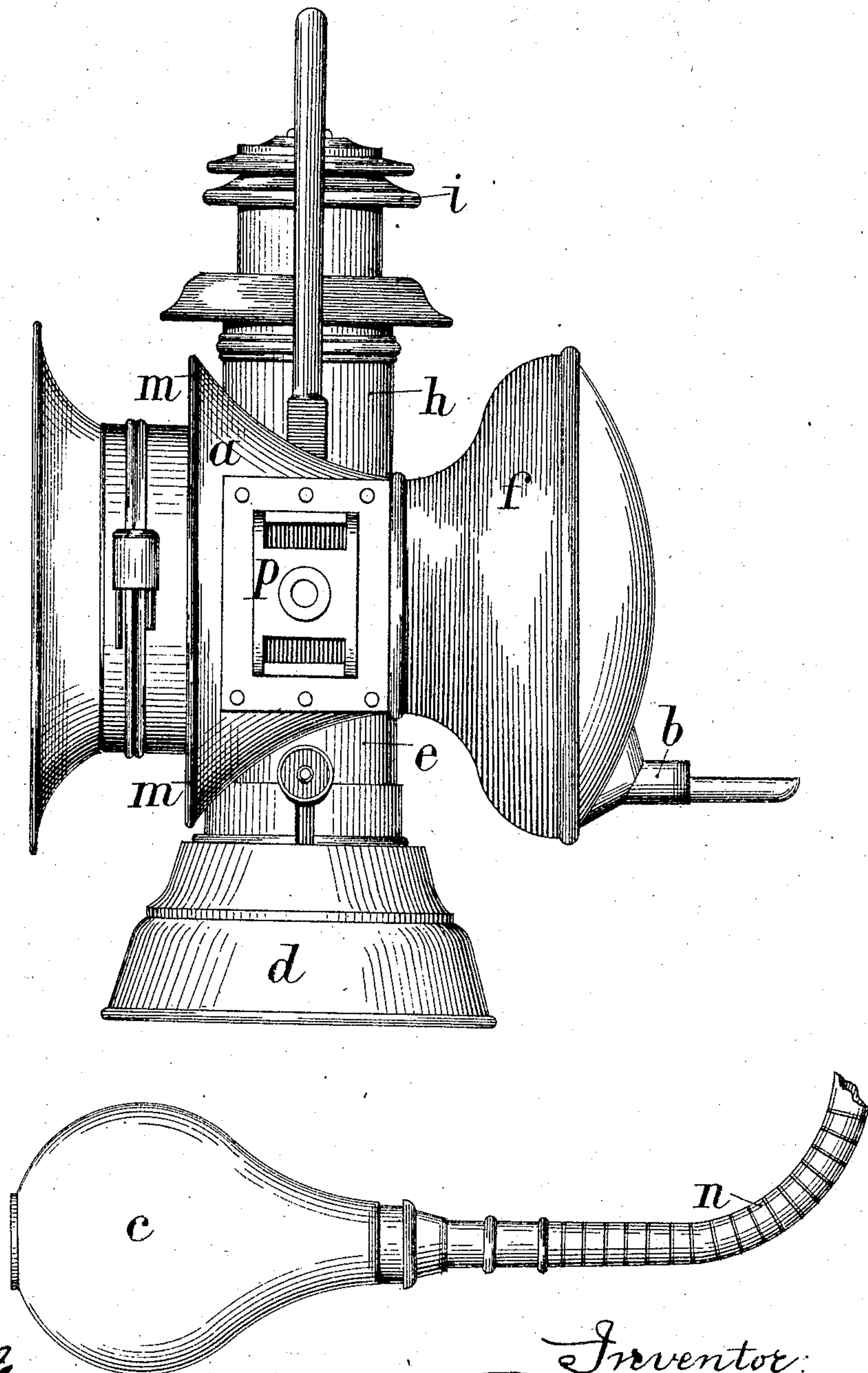
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4 SHEETS—SHEET 3.

Fig. 5.



Witnesses
H. M. Clutter.
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Emile Bert
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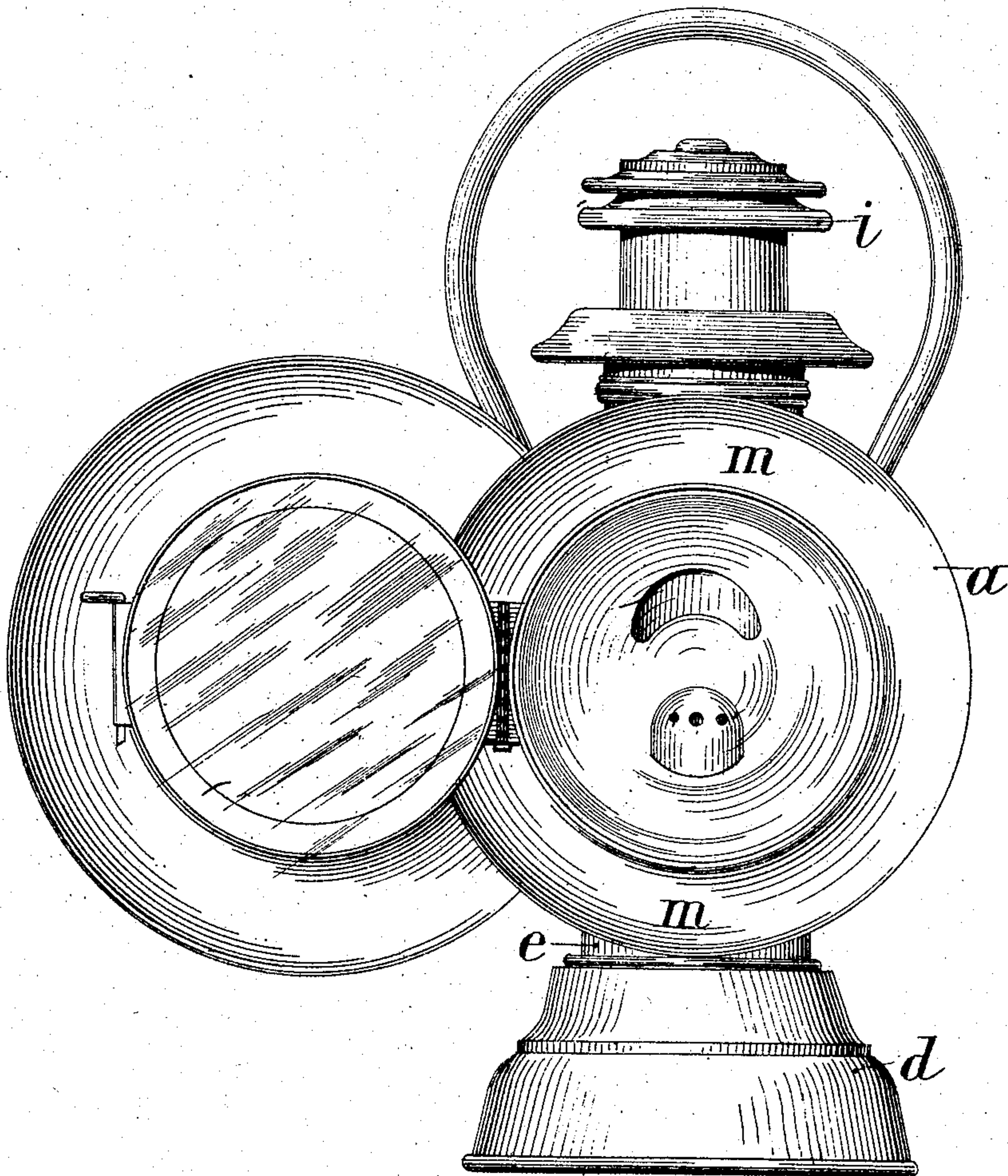
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4 SHEETS—SHEET 4.

Fig. 6.



Witnesses:
Anton H. H. H.
E. H. H.

Inventor:
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UNITED STATES PATENT OFFICE.

EMILE BERT, OF PARIS, FRANCE.

COMBINED HORN AND LAMP.

SPECIFICATION forming part of Letters Patent No. 780,491, dated January 24, 1905.

Application filed January 12, 1904. Serial No. 188,723.

To all whom it may concern:

Be it known that I, EMILE BERT, engineer, of No. 7 Boulevard St. Denis, Paris, France, have invented a certain new and useful Com-

5 bined Lamp and Horn; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
 10 pertains to make and use the same.
 The front portion of automobile carriages is generally very much encumbered with ap-
 15 paratus near the driver's seat, and when the steering mechanism and gear for actuating the necessary brakes, as well as the lamps
 20 prescribed by regulation, have been arranged in their proper positions it is often very difficult to arrange for the horn to be so placed that the bulb is close at hand.

The arrangement which is the subject of the
 25 present invention effects an improved accommodation of horn and lamp, with a great economy of space and enhanced appearance.

My invention consists in the combination of
 30 a horn and a regulation lamp. For this purpose the trumpet or mouthpiece through which the air issues from the horn forms a support for the lamp, the greater part of the latter being contained within the trumpet-shaped mouthpiece without filling it up en-
 35 tirely, leaving between it and the mouthpiece an annular space sufficient for the passage of the air.

The accompanying drawings show as representative examples two practical forms for
 35 the carrying out of this invention.

In the drawings, Figure 1 is a longitudinal sectional elevation of one form of the apparatus. Fig. 2 is an outside elevation of the same. Fig. 3 is a front view. Fig. 4 is a back
 40 view; and Figs. 5 and 6 represent in side elevation and a front view, respectively, an alternative form of construction.

The horn *a*, made of copper, bronze, or other suitable metal, is terminated at the rear por-
 45 tion by a pipe *b*, the end of which is connected onto the neck of an india-rubber bulb *c*.

d is the socket which carries the burner for a petroleum, oil, acetylene, or other lamp or
 50 the base of an electric lamp. This socket, which can be outside of the mouthpiece of the

horn *a*, is connected onto a cylinder *e*, made in one with the mouthpiece *a* and passing through it. This cylinder opens into a conical shaped metal chamber *f*, which forms the body or case of the lamp. The case *f* is
 55 closed in front by the glass or lens *g*. It is closed at the back and is surmounted by the chimney *h*, which projects through *a* and is surmounted by the cap *i*. The space *m* be-
 60 between the case *f*, the cylinders *e* and *h*, and the interior surface of the trumpet-shaped mouth-
 piece *a* allows air to escape to the outside.

The mouthpiece *a* is provided with a device
p for securing it to the carriage.

It is of course understood that the shape,
 65 dimensions, proportions, and other details of the apparatus can be varied. For example, the coil *b*, as in the form of construction represented in side and front elevation, respec-
 70 tively, in Figs. 5 and 6, can be placed in the case *f*, made in one with the mouthpiece *a*, the end of this coil projecting from the case by a tube to which is connected the rubber bulb or a flexible pipe carrying the bulb.

The combination of a horn with a lamp can
 75 be effected either by placing a lamp or the case of a lamp inside the mouthpiece of the horn in such a way as to allow air driven by pressure from a bulb, pump, or bellows to escape through it, or by the arrangement around a
 80 lamp of any known construction of a covering, leaving a space for air to escape and connected to any known blowing apparatus.

Having thus disclosed my invention, what I claim as new, and desire to secure by Letters
 85 Patent of the United States, is—

1. As a new article of manufacture, a lamp, and a horn enveloping with its mouthpiece the body portion of the lamp.

2. As a new article of manufacture, a lamp
 90 having a flaring body portion, and a horn having a flaring mouthpiece enveloping the body portion and providing a passage for sound-waves between the two flaring portions.

In witness whereof I have hereunto set my
 95 hand in presence of two witnesses.

EMILE BERT.

Witnesses:

LOUIS GARDET,
PAUL F. PÂQUET.