

(No Model.)

W. P. MYER.
SIGNAL LANTERN.

No. 416,799.

Patented Dec. 10, 1889.

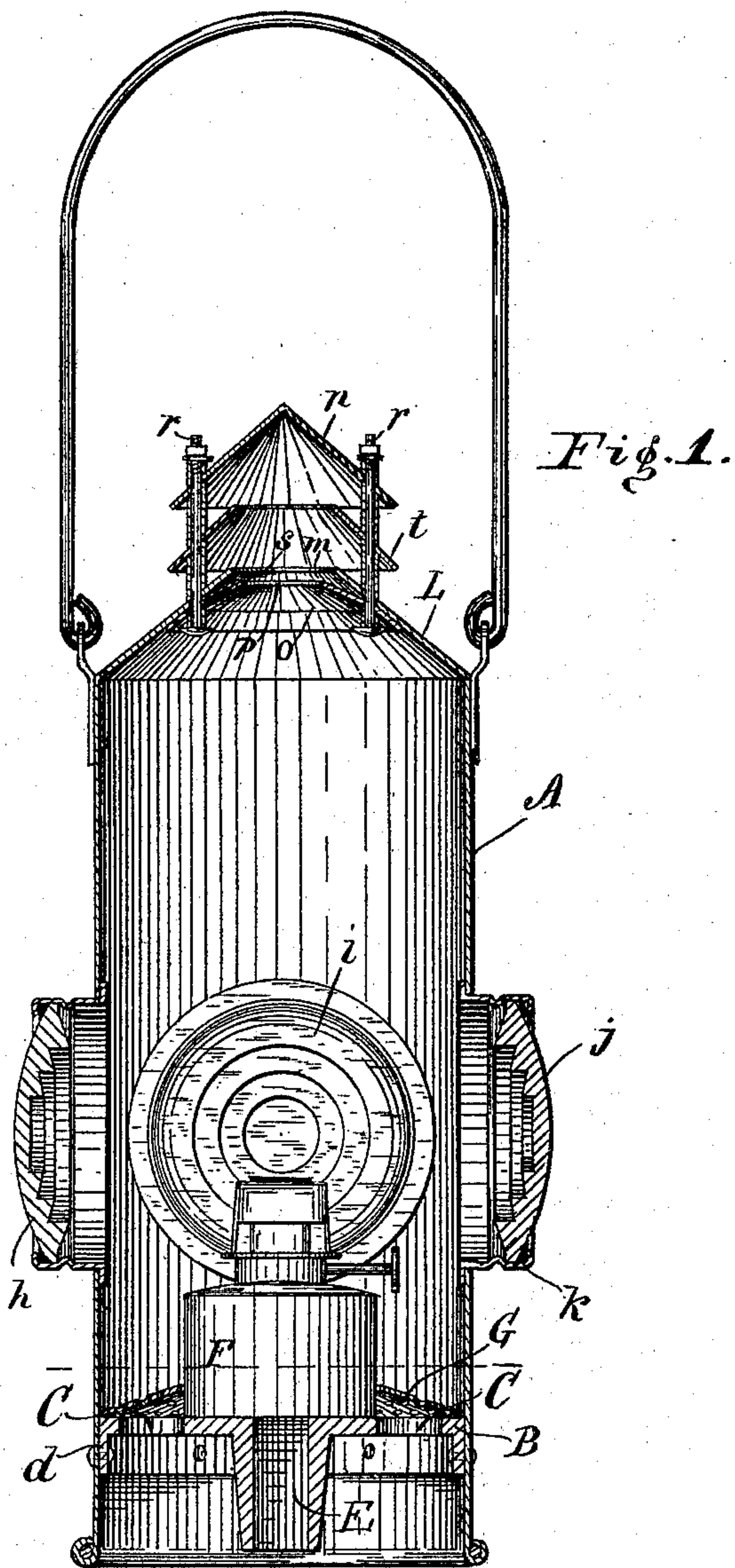
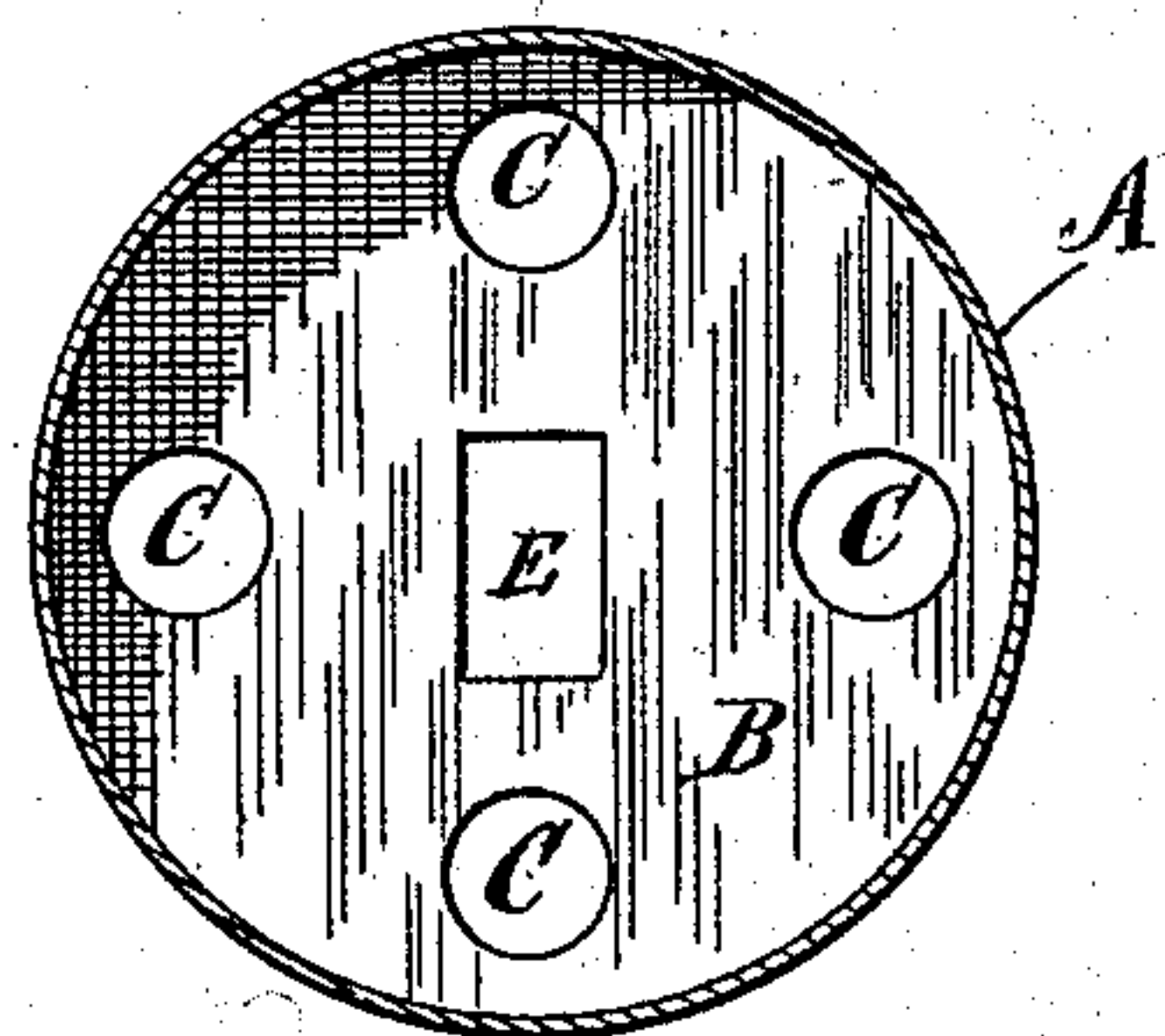


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

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SIGNAL-LANTERN.

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Application filed May 27, 1889. Serial No. 312,191. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. MYER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Improvement in Signal-Lanterns, of which the following is a specification.

My invention relates to an improvement in signal-lanterns such as are used in railway service.

The object of my improvement is to provide improved means of ventilation, whereby an abundant supply of air to support combustion in the lamp is provided and the products of combustion are allowed to escape, both the supply-openings and the escape-openings being so guarded as to prevent the disturbance or extinction of the flame by strong drafts on the outside, all as hereinafter fully described.

The accompanying drawings illustrate my invention.

Figure 1 represents a central vertical section; and Fig. 2, a transverse section at *a*, Fig. 1, the lamp and perforated guard having been removed.

A is the cylindrical body of the lantern, made, preferably, of sheet metal.

B is the bottom, made, preferably, of cast metal and having a series of large vertical openings C C arranged near its outer edge. Bottom B is provided on one side with a flange *d*, through which rivets are passed to secure it to the body, and is provided also with a central rectangular socket E, adapted to receive the upper end of a switch-lever when the lantern is used as a switch-signal.

The relation of the bottom B to the body of the lantern is such that said body extends below the bottom about two inches, or far enough to effectually shield the openings C from side drafts of air. The lamp F rests on the bottom between the openings C, and is held centrally in position by a conical annular perforated disk G.

The sides of the lantern-body are provided with different-colored lenses *h i j*, in the

usual well-known manner. For the purpose of preventing breakage of the lenses by heavy jarring, a rubber gasket or like packing *k* is interposed between the outer face of the lens and its inclosing-frame.

The body of the lantern is provided with a conical top L, having a central opening *m*, which is protected against downward drafts by the well-known conical ventilator-caps *n* and *t*. For the purpose of still further protecting the interior of the lantern against downward drafts of air I arrange beneath the opening *m* in the top a conical disk *o*, of a more obtuse angle than the conical top and having a central opening *p*, of smaller diameter than the opening *m* in the top. Disk *o* is held with its outer edge closely against the under side of the top by bolts *r r*, which also pass through the ventilator-caps *n* and *t* and hold them in position. Disk *o* being of a more obtuse angle than the top, an inclosed space *s* is formed between the disk and the top. Currents of air entering opening *m* from above are caught by the projecting edge of disk *o* and deflected into the space *s*.

In operation the lamp is supplied with air through the vertical openings C in the bottom B, which are protected from side drafts by the downwardly-projecting sides of the body A. The products of combustion pass freely out at the top through the opening *m*, which is protected from downward drafts by the ventilator-caps *n* and *t* and the disk *o*, as before explained.

I claim as my invention—

The above-described lantern, consisting of the body A, the bottom B, having the series of vertical openings C C, the lamp, the perforated annular disk G, the conical top L, the ventilator-caps *n* and *t*, and the disk *o*, all combined and arranged substantially as specified.

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Witnesses:

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