

P. N. BEGIN.
Revolving Head-Lights.

No. 155,281.

Patented Sept. 22, 1874.

Fig. 1.

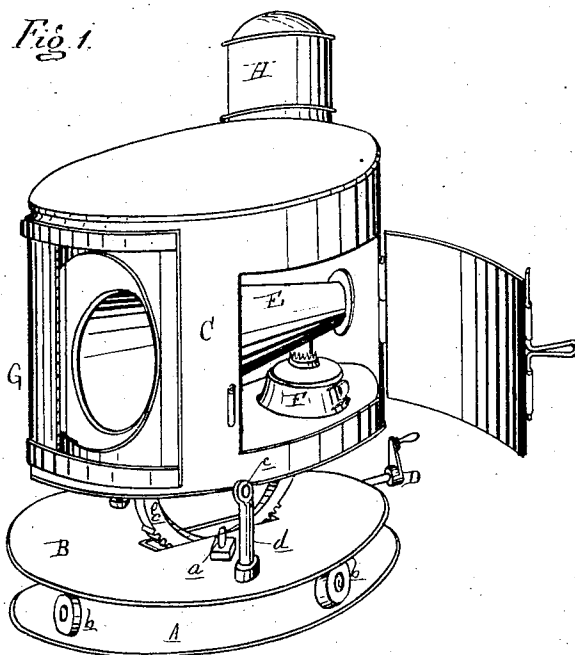
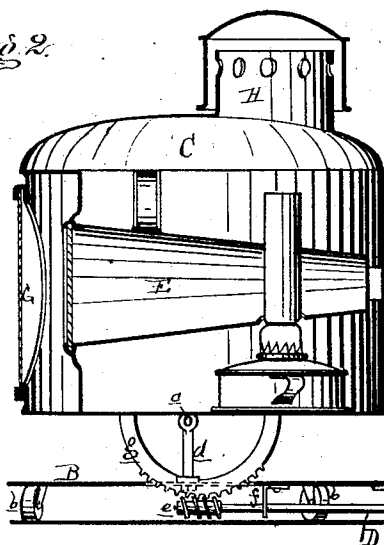


Fig. 2.



Attest:
H. F. Elberts.
Notary

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UNITED STATES PATENT OFFICE.

PETER N. BEGIN, OF DETROIT, MICHIGAN.

IMPROVEMENT IN REVOLVING HEAD-LIGHTS.

Specification forming part of Letters Patent No. **155,281**, dated September 22, 1874; application filed May 22, 1874.

To all whom it may concern:

Be it known that I, PETER N. BEGIN, of Detroit, in the county of Wayne and State of Michigan, have invented a Revolving Head-Light for Steam-Vessels, of which the following is a specification:

The object of my invention is to provide a head-light for steamers which can be adjusted to throw a beam of light ahead or at an angle with the ship's course; and it is also capable of being inclined to an angle with the horizon for the purpose of enabling the navigator to see the buoys and stakes that mark a channel, or for any other similar purpose in a dark night.

Figure 1 is a perspective view. Fig. 2 is a longitudinal vertical section.

In the drawing, A represents a circular metal plate, which may be secured to the top of the pilot-house of a steamer, or to any other convenient place on her upper deck. From its center rises a stud, *a*, on which is centered a turn-table, B, mounted on rollers *b*, which travel on the periphery of the plate A. C is the lamp-case, supported on two standards, *d d*, rising from opposite sides of the turn-table by two studs, *c c*, journaled in the tops of said standards, so that said case can be inclined from the horizontal plane, as well as turned around with the turn-table. D is a shaft with a crank on the rear end, and is journaled in hangers *f f* under the turn-table. On its inner end is a worm, *e*, which meshes with a geared segment, *g*, pendent from the case through a slot in the turn-table; by turn-

ing the crank the lamp-case can be inclined to any angle. E is a conical reflector in the case, the chimney of the lamp F passing up through its rear end—the products of combustion passing out through a hood, H, at the top, which prevents the wind from affecting the flame. The case is provided with a door at one side, which gives access to the lamp, and is fitted with a dark slide, G, which may be used to close the front of the case when the light is not required.

This lantern enables the navigator to make a landing and to steer through staked channels, or to discover floating or stationary obstructions on a dark night in them, and, if desired, can be used as a stationary head-light.

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

1. In combination with a head-light for vessels, mounted on a turn-table, and arranged to be turned on a vertical axis, a shaft, D, provided with worm *e*, which meshes with a geared segment, *g*, for the purpose of inclining the lamp at any angle, as set forth.

2. In a head-light, the combination, with the case C, having the reflector E, plate A, stud *a*, turn-table B, studs *c*, standard *d*, shaft D, worm *e*, and geared segment *g*, all constructed and arranged substantially as described and shown.

PETER N. BEGIN.

Witnesses:

LEANDER FERGUSON,
EMILY BULLARD.