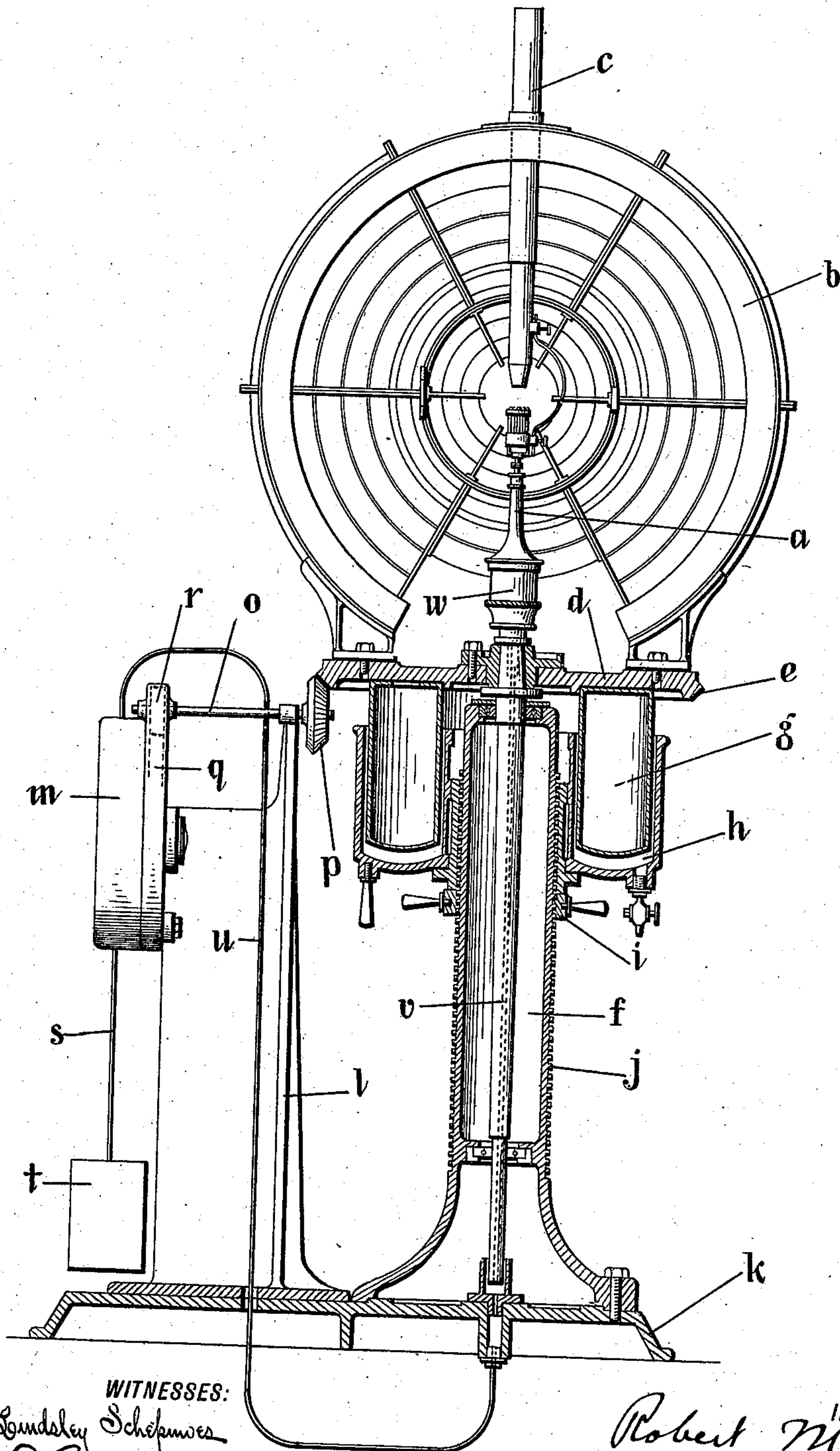


No. 881,667.

PATENTED MAR. 10, 1908.

R. M. DIXON.
BEACON, LIGHT BUOY, &c.
APPLICATION FILED NOV. 9, 1904.



WITNESSES:
Lindsay Schepmeyer
Lena Schepmeyer

INVENTOR,
Robert M. Dixon
BY
Geo. E. Moore
his ATTORNEY

UNITED STATES PATENT OFFICE.

ROBERT M. DIXON, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO THE SAFETY CAR HEATING & LIGHTING COMPANY, A CORPORATION OF NEW JERSEY.

BEACON, LIGHT-BUOY, &c.

No. 881,667.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed November 9, 1904. Serial No. 231,994.

To all whom it may concern:

Be it known that I, ROBERT M. DIXON, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Beacons, Light-Buoys, &c., of which the following is a specification.

My invention relates primarily to beacons, light buoys, etc., but may be applied in other situations.

The principal object of the invention is to provide means whereby a lens or other light variant may be moved or rotated by the flow of fluid, for instance, compressed air, gas or water or the flow of gas to a burner.

My invention will be described generally with the aid of the accompanying drawing in which I have shown merely by way of illustration in sectional elevation one form of an apparatus in which my invention is embodied.

In this drawing: *a* indicates a suitable burner and *b* a lens surrounding the same the chimney *c* being provided to carry out the products of combustion. The burner and lens are suitably supported as, for instance, upon a platform *d*, which platform is or may be provided peripherally with a suitable driving gear *e*, herein shown as a bevel-gear. The lens and burner are in the present instance carried centrally above a suitable pillar *f* and the platform is supported by a suitable float *g* resting in an annular mercury well *h* so as to permit the float to rotate freely therein. The mercury well is preferably adjustable up and down by means of an adjustable collar *i* which is threaded upon the outer peripheral surface *j* of the pillar *f*. The pillar *f* may be suitably supported, as by means of a suitable base or stand *k*.

Mounted upon the base or stand *k* is a standard *l* which is herein shown as supporting a shaft *o* on which is mounted a pinion *p* meshing with the bevel-gear *e*. A suitable motor *m* is provided for driving the shaft *o*,

the rotating part of the motor *q* being shown in dotted lines as meshing with the pinion *r*; also shown in dotted lines as mounted on the shaft *o*. Motor *m* is a fluid pressure motor and is adapted to be rotated or moved by the movement of gas, air or other fluid there-through. The pipe *s* may come from a suitable source of supply, for instance, a tank *t*, as roughly indicated on the drawing, and the fluid passes into and through the motor. In the illustrative drawing it is shown as passing by pipe *u* to the lower part of the standard *f*, passing upward through the standard by a pipe *v* to the burner *a* through a chamber *w*.

The operation of the device will be obvious from the drawing and description. The fluid passing through the burner rotates the motor, which, in turn, rotates the pinion *p*, thereby rotating the gear *e* which carries the lens *b*. A flashlight or signal is thus obtained and although the device is most conveniently used as a beacon it may, however, be applied in other situations where a flashlight or signal is desirable, it being understood that the motive fluid, arrangement and construction of the parts and light variant apparatus may be varied without departing from the spirit of my invention.

Having described my invention, what I claim and desire to secure by Letters Patent is:—

1. A lamp, a lens, a float therefor, a tank, a mercury bath therein, means for adjustably elevating said tank, and a rotator for said float.

2. A float, a lamp and a lens carried thereby, a tank adapted to contain a mercury bath, a cock for draining portions of mercury from said tank, an adjustable elevator for said tank, and an automatic rotator for said float.

ROBERT M. DIXON.

Witnesses:

A. C. MOORE,
EBRUN E. ALLBER.