

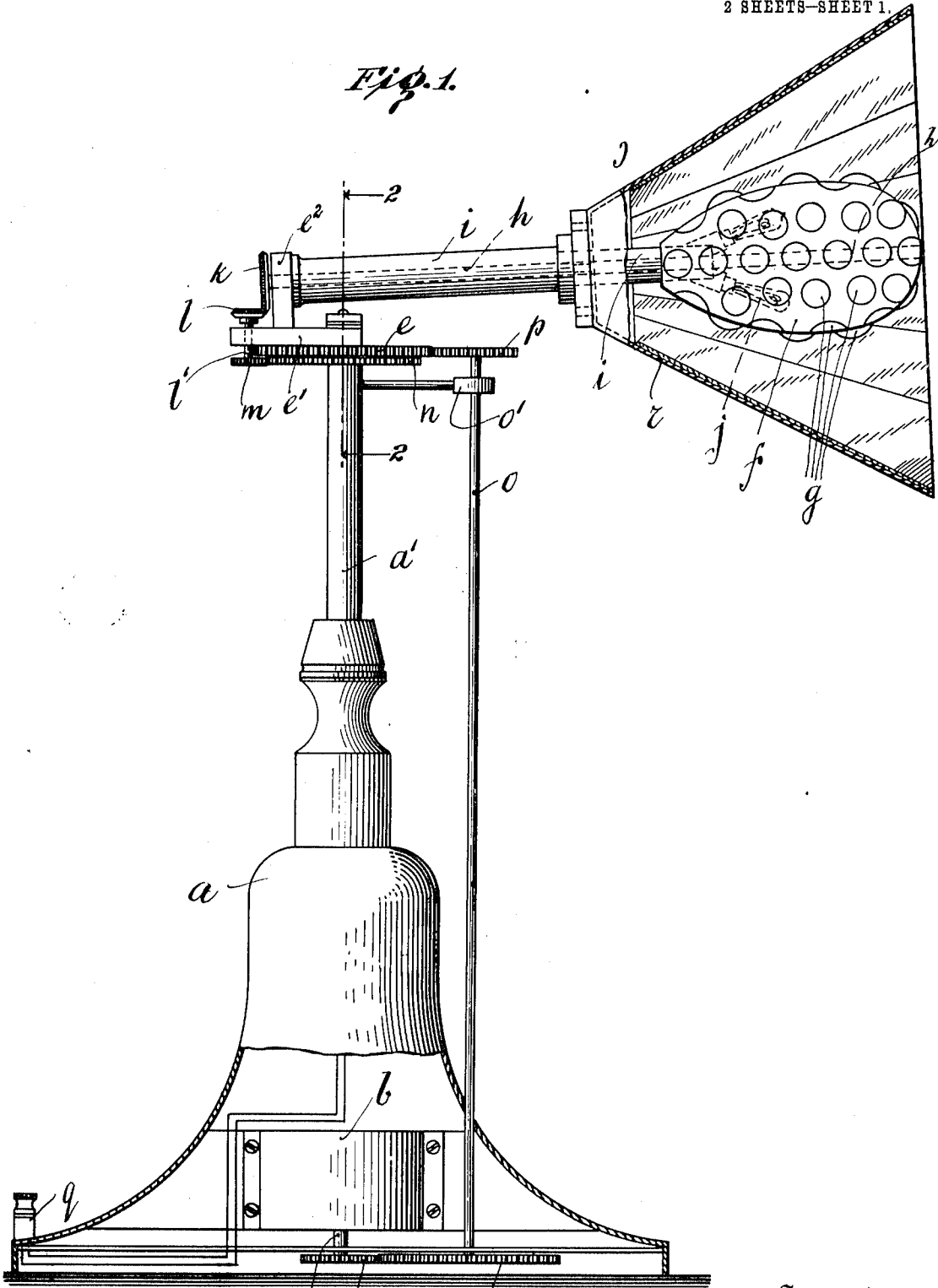
K. EDISON.
ILLUMINATING DEVICE.
APPLICATION FILED OCT. 30, 1912.

1,071,900.

Patented Sept. 2, 1913.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses:
C. S. Ashley
J. J. Donohue

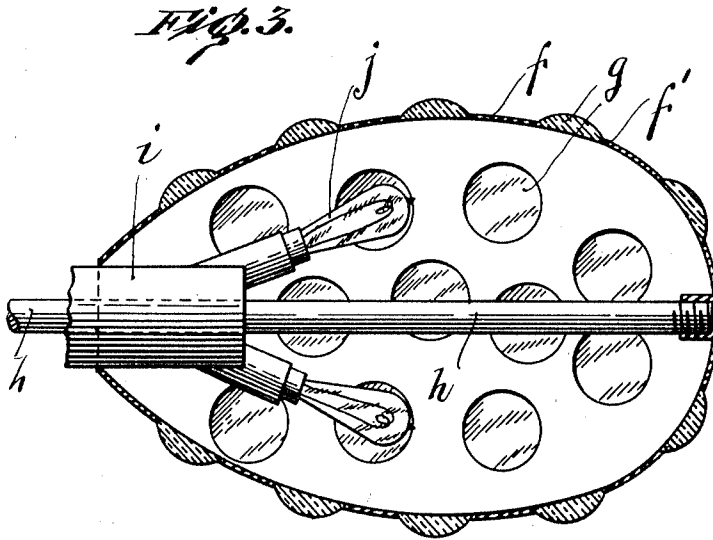
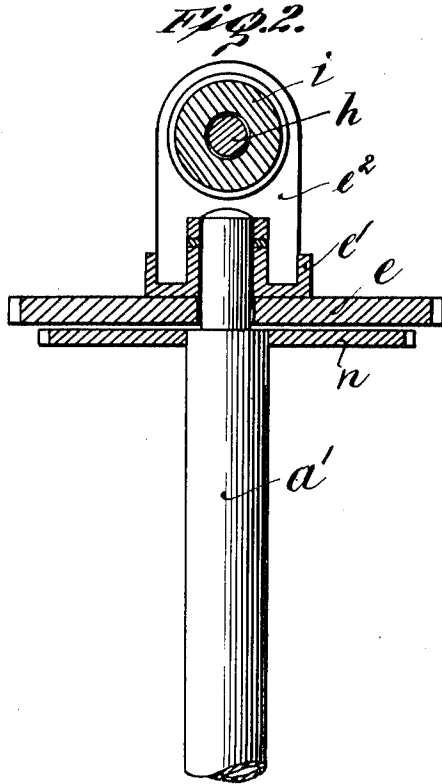
Inventor
Karl Edison
By his Attorney
M. A. Ordman

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Witnesses:
W. S. Ashley
J. J. Donohoe

Inventor
Karl Edison,
By his Attorney
Wm. T. Drumm

UNITED STATES PATENT OFFICE.

KARL EDISON, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO JOHN B. MOSCHENROSS,
OF NEW YORK, N. Y.

ILLUMINATING DEVICE.

1,071,900.

Specification of Letters Patent.

Patented Sept. 2, 1913.

Application filed October 30, 1912. Serial No. 728,702.

To all whom it may concern:

Be it known that I, KARL EDISON, a subject of the Emperor of Austria-Hungary, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Illuminating Devices, of which the following is a specification.

The present invention relates to electric illuminating devices designed to be used for signaling or advertising purposes or the like and has for its object to provide an illuminating device of very simple construction, whereby variously colored lights or various figures, numbers or other matter may be displayed.

To make my invention more clear the same is illustrated in the accompanying drawing in which—

Figure 1 is an elevation of the device partly in section; Fig. 2 a section on line 2—2 of Fig. 1; and Fig. 3 an enlarged section through the illuminating device proper.

The illuminating device comprises a standard or frame *a* of any suitable construction in which is suitably supported an electric motor *b* the shaft *c* of which, extending centrally through said standard, carries at its end a gear *d*. The standard has a tubular extension *a'* on the upper end of which is rotatively mounted a gear *e*. To one face of said gear is secured a bracket *e'*, *e''* which supports the illuminating device I proper. The latter consists of a hollow egg-shaped body *f* of metal or other non-transparent material in the surface of which a plurality of perforations *f'* are provided which are covered by disks *g* of glass or other transparent material. These disks may be made of different colors and may be lens shaped. The egg-shaped body *f* is rigidly secured to a spindle *h* which extends through and is rotatively borne in a sleeve *i* fixed to the bracket *e'*, *e''*. The sleeve *i* projects at one end into the body *f* and carries two or more electric lamps *j* of any suitable construction. The spindle *h* at its outer end carries a bevel gear *k* which is adapted to mesh with a bevel gear *l* supported on a short spindle *l'* borne in the bracket *e'*. At its other end the spindle *l'* carries a cog wheel *m* adapted to mesh with a gear *n* centrally fixed to the stationary tubular extension *a'*. Meshing with the gear *d* is a gear *d'* supported on a vertical spindle *o* suitably

supported in a bracket *o'*. At its upper end the spindle *o* carries a small gear *p* which meshes with the gear *e*. The electric current to the lamps *j* is conveyed from a suitable source (not shown) through the terminals *q* and the frame or standard *a*, *a'*.

r denotes a reflector of any suitable construction fixed to the sleeve *i* and adapted to partly inclose the egg-shaped body or bulb *f* of the illuminating device.

By reason of the construction specified, the motor through gears *d*, *d'*, spindle *o* and gears *e*, *p* imparts rotary motion to the entire illuminating device I, which will revolve around the vertical axis of the frame *a*, *a'*. Independent of and simultaneously with this movement the egg-shaped bulb *f* inclosing the lamps *j* will receive a rotary motion around the longitudinal central axis of the sleeve *i*, owing to the gear *m*, while revolving around the vertical axis of the frame *a*, *a'* rolling on the stationary gear *n* and imparting rotation to the gear *k* and the spindle *h*. The rotation of the bulb *f* will have the effect that various characters or different colored lights will be displayed and reflected by the reflector *r* while the latter revolves around the vertical axis of the standard together with the other parts of the illuminating device.

What I claim and desire to secure by Letters Patent is:

1. An illuminating device comprising a non-transparent illuminated bulb having lens shaped windows and a reflector therefor, said bulb being adapted to revolve around its longitudinal axis and around a vertical axis, and said reflector being adapted to revolve around a vertical axis synchronously with the rotation of the bulb around a vertical axis and means for affecting the said movements.

2. An illuminating device comprising a standard, a non-transparent illuminated bulb having lens shaped windows and a reflector therefor, said bulb and reflector being so supported on said standard as to be capable of revolving together around the vertical axis of the standard and means whereby during the said rotary movement the said bulb is caused to independently revolve around its own longitudinal axis.

3. A illuminating device comprising a standard, a non-transparent bulb having lens shaped windows, electric lamps project-

ing into said bulb, a reflector for said bulb, a
support rotatively mounted on said stand-
ard and carrying said lamps and reflector,
said bulb being rotatively supported in said
5 support and means whereby during the ro-
tation of said support around the vertical
axis of said standard independent rotary
motion is imparted to said bulb around its
own longitudinal axis.

10 4. An illuminating device comprising a
standard, a driven gear rotatively mounted
thereon, a support fixed to said gear, a non-
transparent bulb having lens shaped win-
dows and rotatively supported in said sup-

port, electric lamps projecting into said 15
bulb, a reflector for the latter, said electric
lamps and reflector being fixed to said sup-
port, and gears whereby during the rotation
of said support around the vertical axis of
the standard, an independent rotary motion 20
will be imparted to said bulb.

In testimony whereof I affix my signature
in presence of two witnesses.

KARL EDISON.

Witnesses:

JAMES H. GOGGIN,
MAX D. ORDMANN.