

(No Model.)

G. M. EDWARDS.

AUTOMATIC CAR LAMP EXTINGUISHER.

No. 366,999.

Patented July 19, 1887.

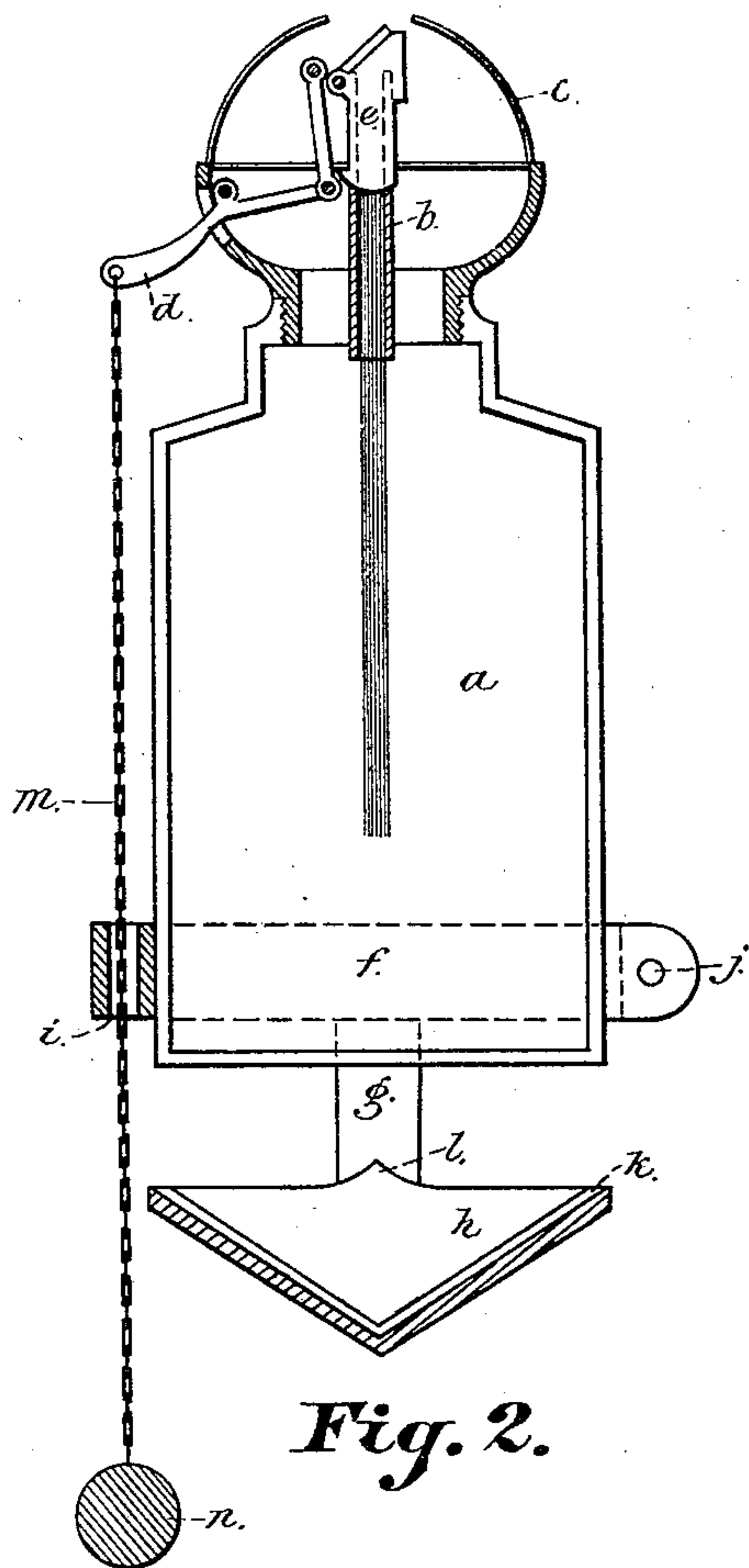


Fig. 2.

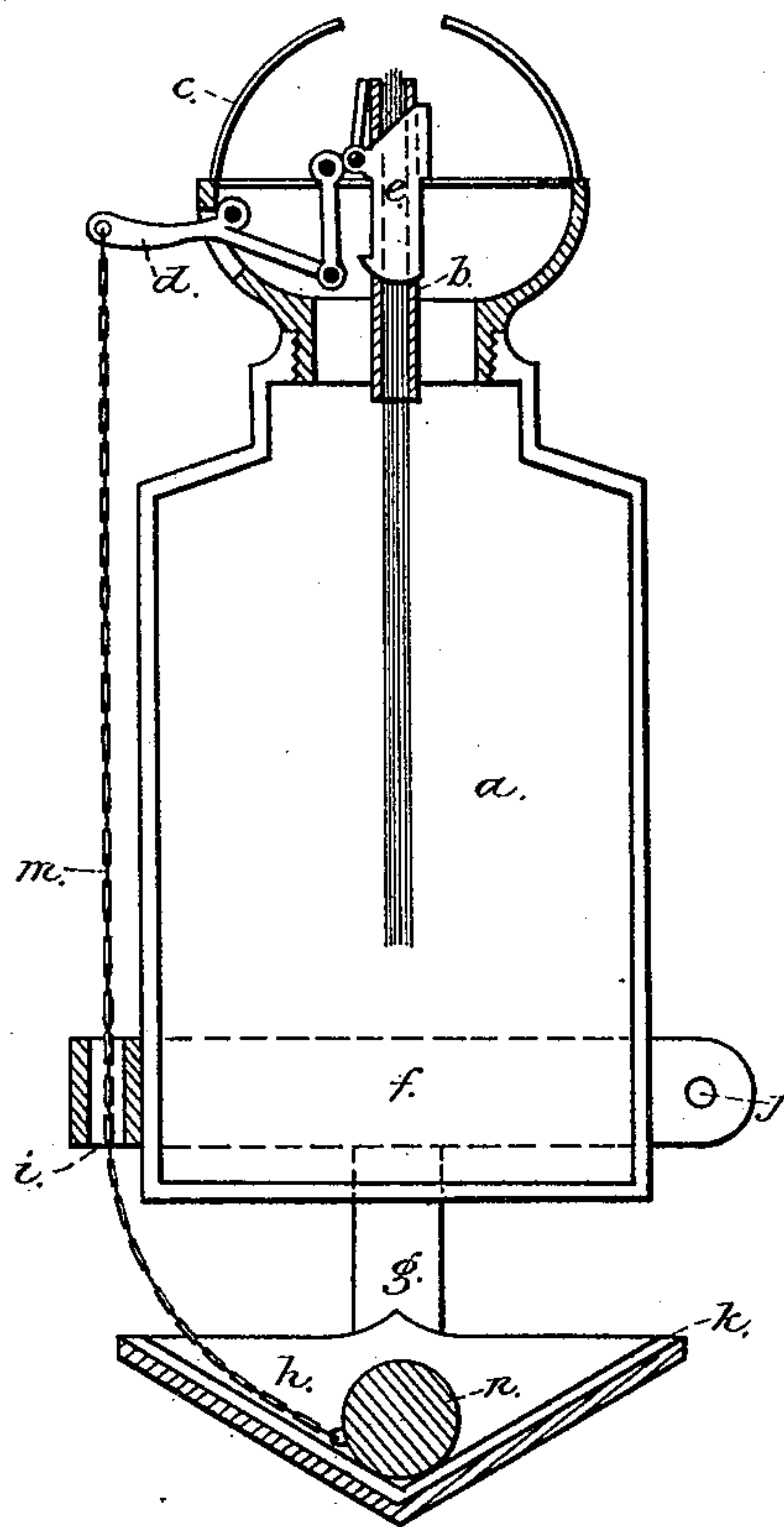


Fig. 1.

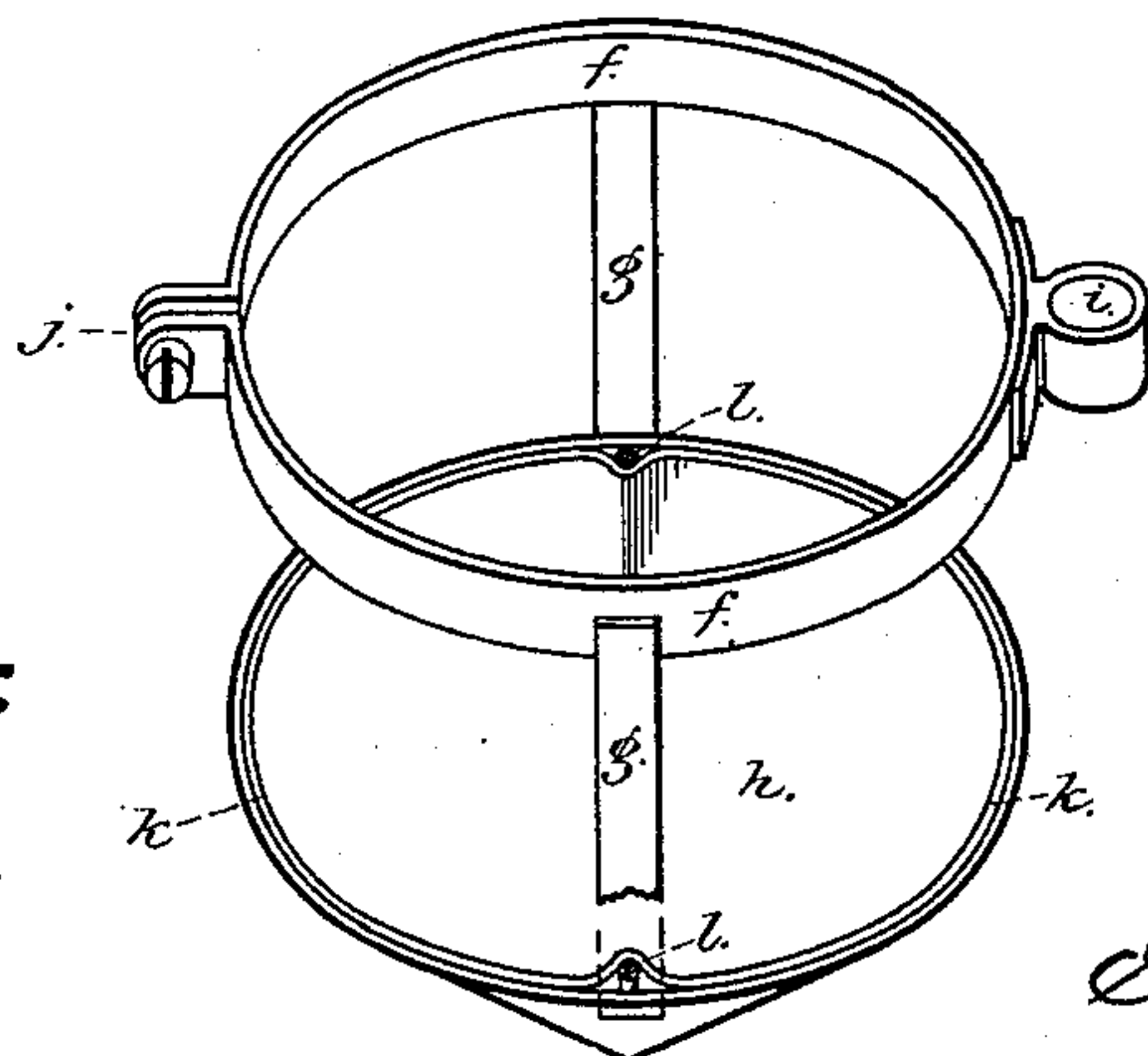


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

GRANVILLE M. EDWARDS, OF GRAY, ASSIGNOR OF ONE-HALF TO WILLIAM E. DENNISON, OF PORTLAND, MAINE.

AUTOMATIC CAR-LAMP EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 366,999, dated July 19, 1887.

Application filed March 28, 1887. Serial No. 232,637. (No model.)

To all whom it may concern:

Be it known that I, GRANVILLE M. EDWARDS, of Gray, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Automatic Car-Lamp Extinguishers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a section showing extinguisher open. Fig. 2 is a section showing extinguisher closed. Fig. 3 is a view of pan and band.

Same letters show like parts.

My invention relates to improvements in railway-car lamps, and has for its object the providing of such lamps with automatic extinguishers.

In the accompanying drawings, *a* represents the body of a car-lamp having the common tube *b* and the bulb *c*. The lever *d* operates the extinguisher *e*. This I do not claim as my invention.

Around the waist or body of the lamp I place a band or hoop, *f*, made of metal or other substance. This band *f* has the supports *g* extending downward. To these supports is attached a cup or pan, *h*, having a conical shape, the opening being upward. On this band is also placed a chain-guide, *i*. The band *f* may be attached to the body of the lamp in any convenient manner—as, for example, by turning the ends outward, like ears, and fastening them with screw or bolt, as shown at *j*. The supports *g* are attached to the pan and band in any convenient way. The pan *h* has a soft lining, *k*, to obviate any rattling noise. It also has the lining at those parts where the supports are attached raised slightly, as seen at *l*, so that there may be no possibility of the

ball catching against the supports *g*. To the lever *d*, I attach a chain, *m*, having on its other end a ball, *n*. The chain passes through the chain-guide *i*, and is long enough to extend below the bottom of the pan *h* when chain and pan are attached to the lamp.

From what has already been said it is plain that when the ball *n* is placed in the pan *h* the extinguisher will be open; but when the weight of the ball is allowed to act on the lever the extinguisher will close. When the lamp is in an upright position, the ball will remain in the pan; but when the lamp is tipped, or inclined out of its ordinary upright position, it matters not in which direction, the ball, by the force of gravity, rolls out of the pan, and its weight forces down the lever and extinguishes the lamp. Again, if the train be stopped very suddenly, as in a collision, the force of inertia would be sufficient to throw the ball from the pan, and thus accomplish the desired result.

Having thus described my invention and its use, what I claim, and desire to secure by Letters Patent of the United States, is—

In a railway-car lamp, the combination, with an extinguisher operated by a lever, as set forth, of a chain or cord and ball, said chain being attached to the arm of the lever, a supporting-pan having a soft lining, and a band or clasp placed around the lower part of the lamp-body and provided with downwardly-extending arms, which support the pan, and a chain-guide through which the chain runs, all substantially as and for the purposes hereinbefore set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

GRANVILLE M. EDWARDS.

Witnesses:

W. E. DENNISON,
A. J. COLE.