

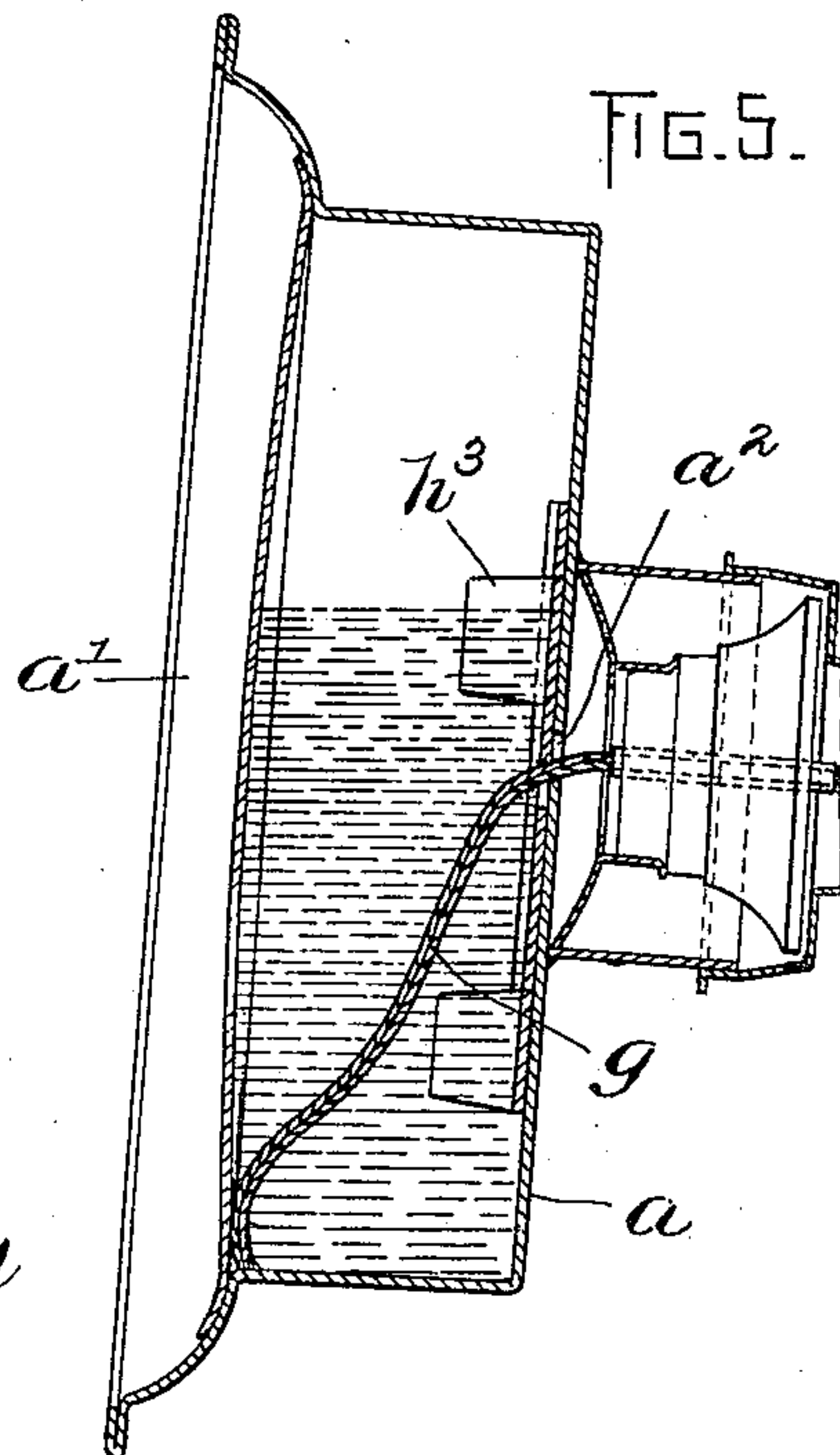
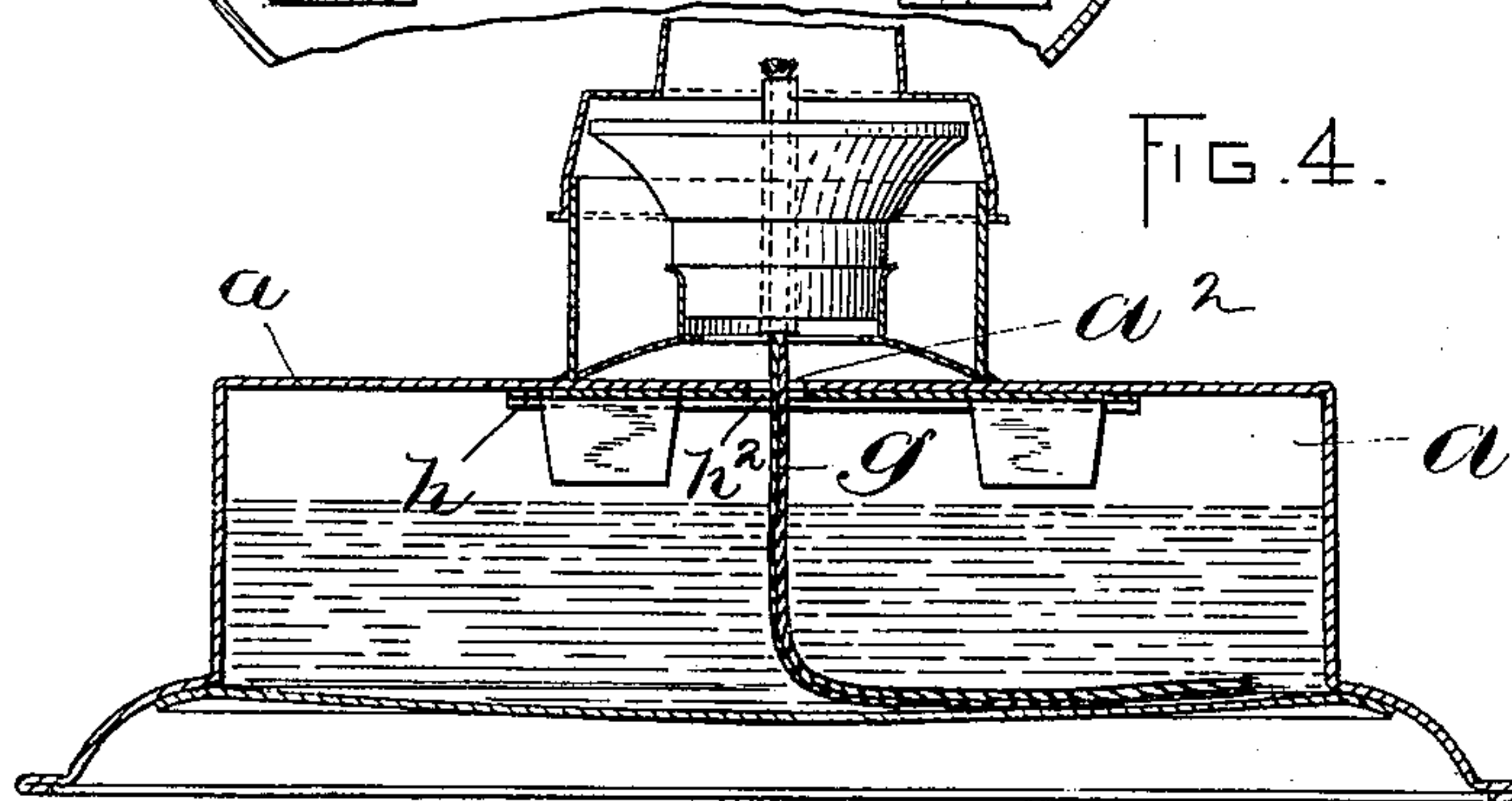
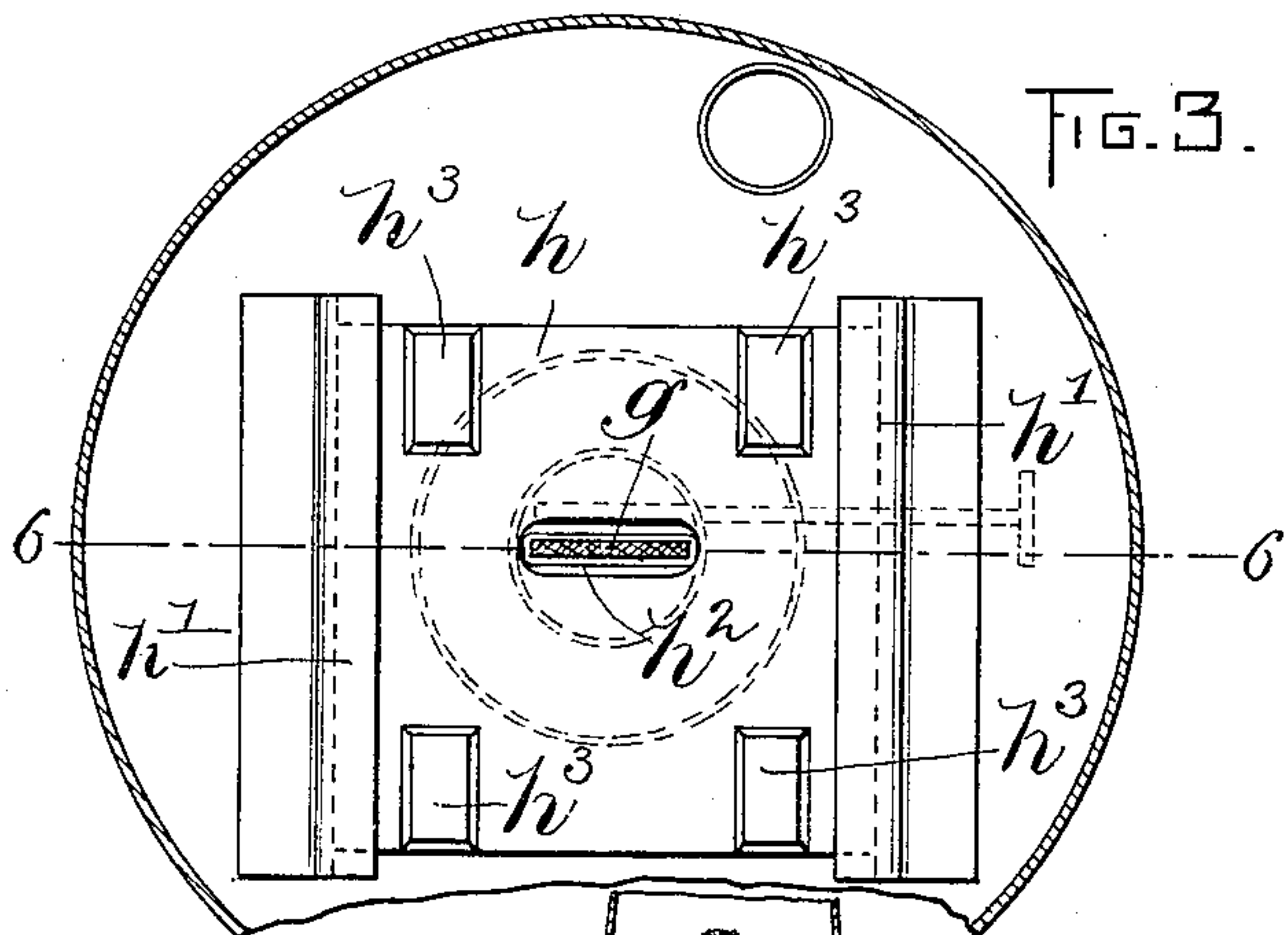
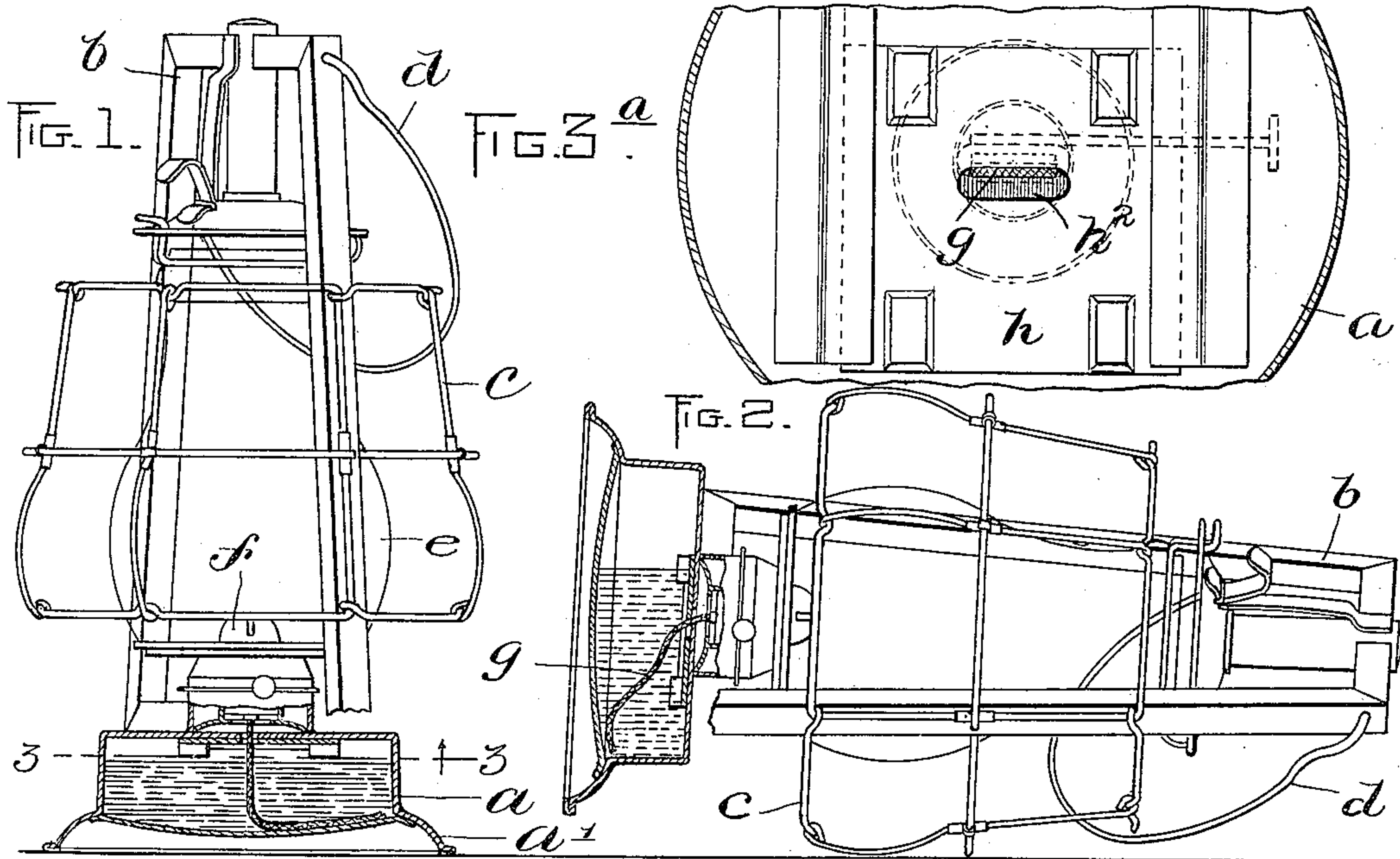
No. 611,858.

Patented Oct. 4, 1898.

F. H. DEWEY.  
SAFETY DEVICE FOR LANTERNS.

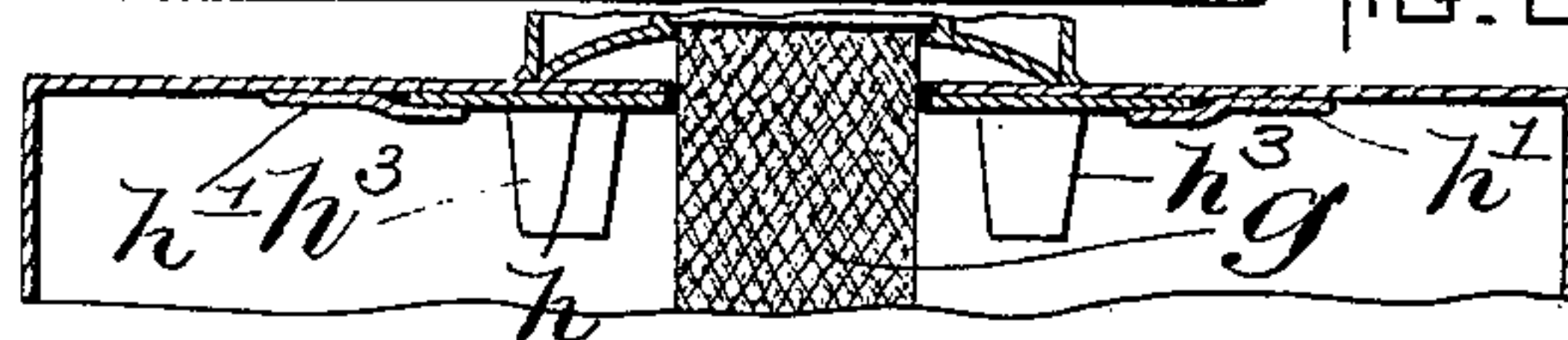
(Application filed June 23, 1898.)

(No Model.)



WITNESSES:

A. D. Harrison  
P. W. Pezzetta.



INVENTOR:  
Francis H. Dewey  
By Wright, Brown & Limby  
Attorneys



# UNITED STATES PATENT OFFICE.

FRANCIS H. DEWEY, OF READING, MASSACHUSETTS.

## SAFETY DEVICE FOR LANTERNS.

SPECIFICATION forming part of Letters Patent No. 611,858, dated October 4, 1898.

Application filed June 23, 1898. Serial No. 684,207. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS H. DEWEY, of Reading, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Safety Devices for Lanterns, of which the following is a specification.

This invention relates to oil illuminating apparatus, and more particularly to the ordinary type of hand-lantern. The invention has for its object to provide means whereby the oil-reservoir may be closed or its outlet materially restricted when the lantern is tilted or placed on its side through accident or other cause.

The invention consists in the novel features of construction and arrangement which I shall hereinafter describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a side elevation of a lantern, with parts in section, illustrating my improvements. Fig. 2 represents a similar view showing the lantern on its side. Fig. 3 represents a section on line 3 3 of Fig. 1. Fig. 3<sup>a</sup> represents a similar view showing the position of the shut-off slide when actuated by the tilting of the lantern. Fig. 4 represents a sectional view, on a larger scale, of the lower part of the lantern. Fig. 5 represents a similar view of a lantern in a tilted position. Fig. 6 represents a sectional view taken at right angles to the section in Fig. 4.

The same reference characters indicate the same parts in all the figures.

Referring to the drawings, *a* designates the oil-reservoir of the lantern, the same having a base-flange *a'* formed at its lower margin. *b* designates the tubular frame, *d* the bail, *c* the protective cage, *e* the chimney, and *f* the burner, all of said parts being of the usual or any desired construction and needing no further description.

The top of the oil-reservoir is formed with an outlet-aperture *a*<sup>2</sup>, through which the wick *g* passes into the burner above. Below this aperture is mounted the slide *h*, which constitutes the novel feature of my invention and consists of a flat plate mounted to slide in guides *h'* and formed with an aperture

*h*<sup>2</sup>, which normally registers with the outlet *a*<sup>2</sup> of the oil-reservoir, said plate being also weighted with pieces of metal *h*<sup>3</sup> *h*<sup>3</sup>.

Since it is desirable to have the outlet *a*<sup>2</sup> somewhat larger than the wick *g'* in order to let the latter pass freely therethrough, there is sufficient space left to allow the oil to escape when the lantern lies on its side, as in Fig. 2, or is tilted from a substantially perpendicular posture. Such tilting or upsetting of the lantern frequently occurs through accident or other cause, and the result is that the oil flows out of the reservoir. My invention prevents this, however, for when the lantern is tilted or lies on its side the slide *h'* automatically assumes a position, such as illustrated in Figs. 2 and 5, across the outlet *a*<sup>2</sup>, the weights *h*<sup>3</sup> *h*<sup>3</sup> assisting in moving it from its normal position to its abnormal position. When in said abnormal position, the slide covers or materially restricts the aperture *a*<sup>2</sup> and prevents the outflow of oil which would ordinarily occur. The mounting of the slide is preferably such that it will be actuated in almost any abnormal position of the lantern.

Having thus explained the nature of my invention and described a way of constructing and using the same, although without having attempted to set forth all the forms in which it may be embodied or all the modes of its use, I declare that what I claim is—

1. In a lantern, the combination with the oil-reservoir having an outlet through which the wick passes, of means actuated by the tilting of the lantern for closing or restricting said outlet.

2. In a lantern, the combination with the oil-reservoir having an outlet through which the wick passes, of a weighted slide adjacent to said outlet and formed with an aperture which normally registers therewith, said slide moving across the outlet when the lantern is tilted, and closing or restricting the same.

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

FRANCIS H. DEWEY.

Witnesses:

C. F. BROWN,  
A. D. HARRISON.