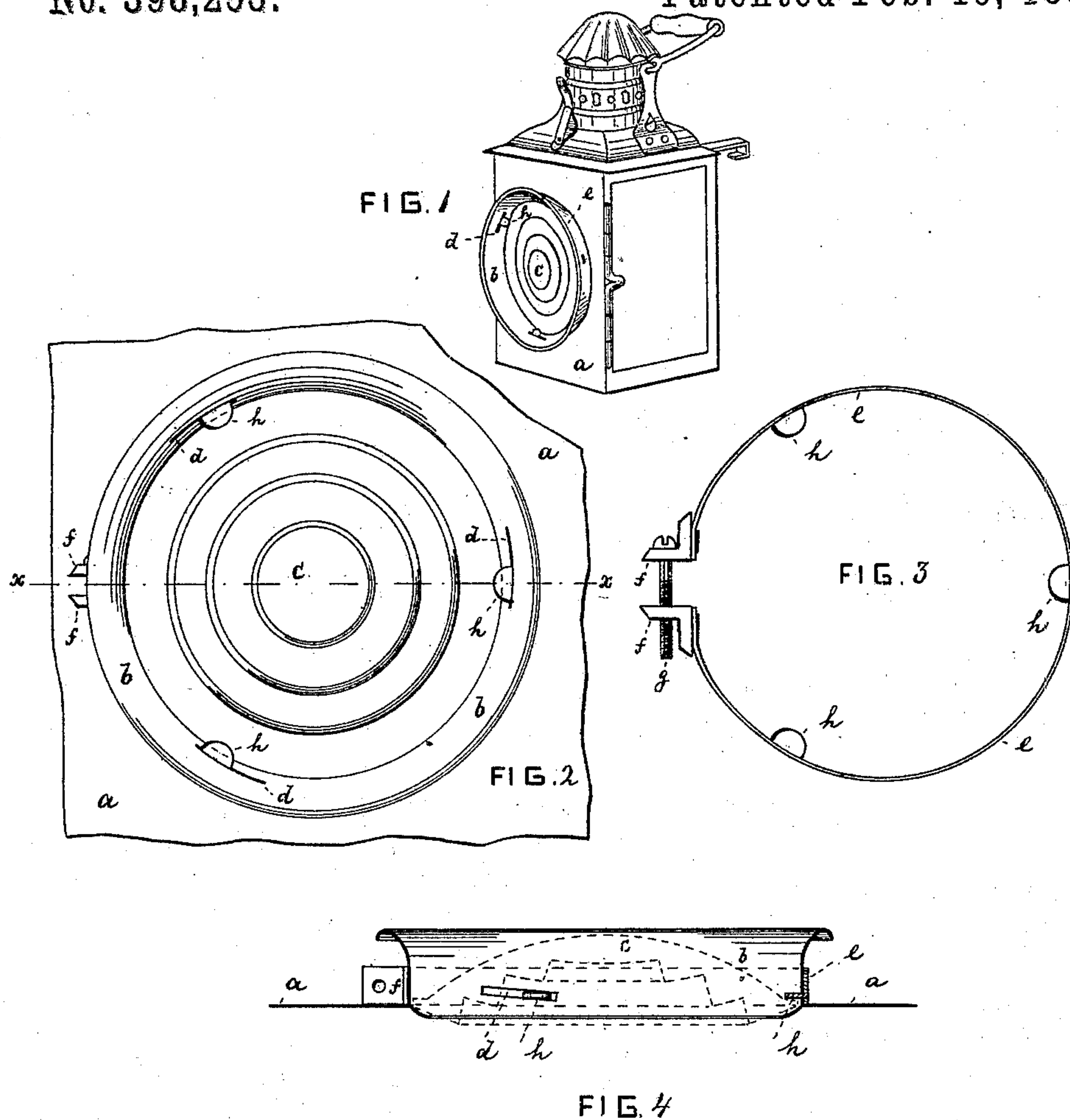


(No Model.)

C. W. HELBIG.  
LENS HOLDER FOR SIGNAL LAMPS.

No. 398,253.

Patented Feb. 19, 1889.



WITNESSES.

*Wm. T. Lowe*  
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INVENTOR.

*C. W. Helbig*  
*by his attorneys*  
*Roeder & Briesen*

# UNITED STATES PATENT OFFICE.

CHARLES WM. HELBIG, OF NEW YORK, N. Y., ASSIGNOR TO GEORGE C. DRESSEL, OF SAME PLACE.

## LENS-HOLDER FOR SIGNAL-LAMPS.

SPECIFICATION forming part of Letters Patent No. 398,253, dated February 19, 1889.

Application filed August 1, 1888. Serial No. 281,630. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES WILLIAM HELBIG, of New York city, New York, have invented an Improvement in Lens-Holders for  
5 Signal-Lamps, of which the following is a specification.

This invention relates to an improved means for attaching the lenses to railway signal-lamps. By this improved construction  
10 lenses of different thicknesses can be quickly secured to the lamps, and they can be easily tightened up if they should become loose.

The invention consists in the various features of improvement more fully pointed out  
15 in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a lamp provided with my improvement. Fig. 2 is a face view of the hood on a larger scale; Fig. 3, a side view  
20 of the flexible band; and Fig. 4, a section on line *x x*, Fig. 2.

The letter *a* represents the body of a lamp provided, as usual, with a forwardly-projecting flange or hood, *b*, that forms the seat for  
25 the lens *c*. The hood *b* is provided with three (more or less) slots, *d*, that stand at an inclination to the face of the lamp.

*e* is an elastic band or hoop that is adapted to encircle the hood *b*. The ends of this band  
30 are provided with eyes *f*, that may be drawn together by the screw *g*. To the body of the band *e* there are secured as many inwardly-projecting lugs *h* as there are slots in the hood, the number shown being three. These

lugs are shorter than the length of the slots, 35 and they are placed at such a position on the band *e* as to project into the slots when the band encircles the hood.

In use the lens *c* is placed within the hood, and the band is placed around the hood and  
40 is then drawn taut by screw *g*. The lugs *h* will project over the edge of the lens, and as the band is tightened up they will be drawn along the slots. Thus as the slots are inclined the lugs will come nearer and nearer to the  
45 lens. In this way the lens may be firmly locked to its seat with any desired degree of pressure. Should the lens at any time get loose, it is only necessary to draw up the screw *g*. 50

What I claim is—

1. The combination of a lamp having slotted hood *b* and lens *c*, with the elastic band *e*, having lugs *h* and eyes *f*, and with the screw *g*, passing through said eyes, substantially as specified. 55

2. The combination of a lamp having hood *b*, that is provided with inclined slots *d*, with an elastic band that surrounds the hood and is adapted to be tightened up, and with the  
60 lugs *h*, secured to such band and projecting through the inclined slots *d*, substantially as specified.

CHARLES WM. HELBIG.

Witnesses:

GEO. C. DRESSEL,  
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