

No. 723,145.

PATENTED MAR. 17, 1903.

F. W. DRESSEL.
SIGNAL LAMP.

APPLICATION FILED OCT. 1, 1902.

NO MODEL.

2 SHEETS—SHEET 1.

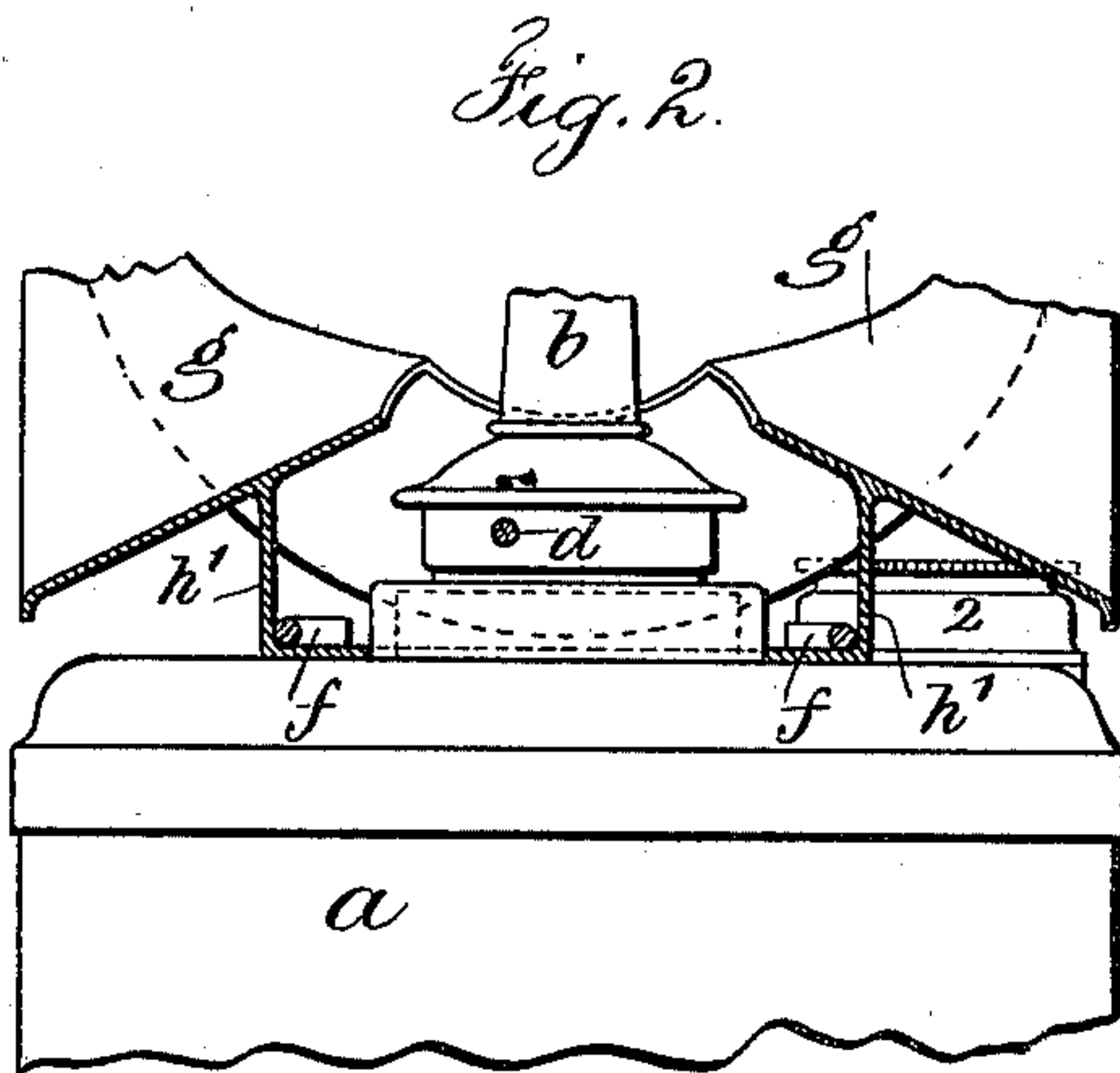
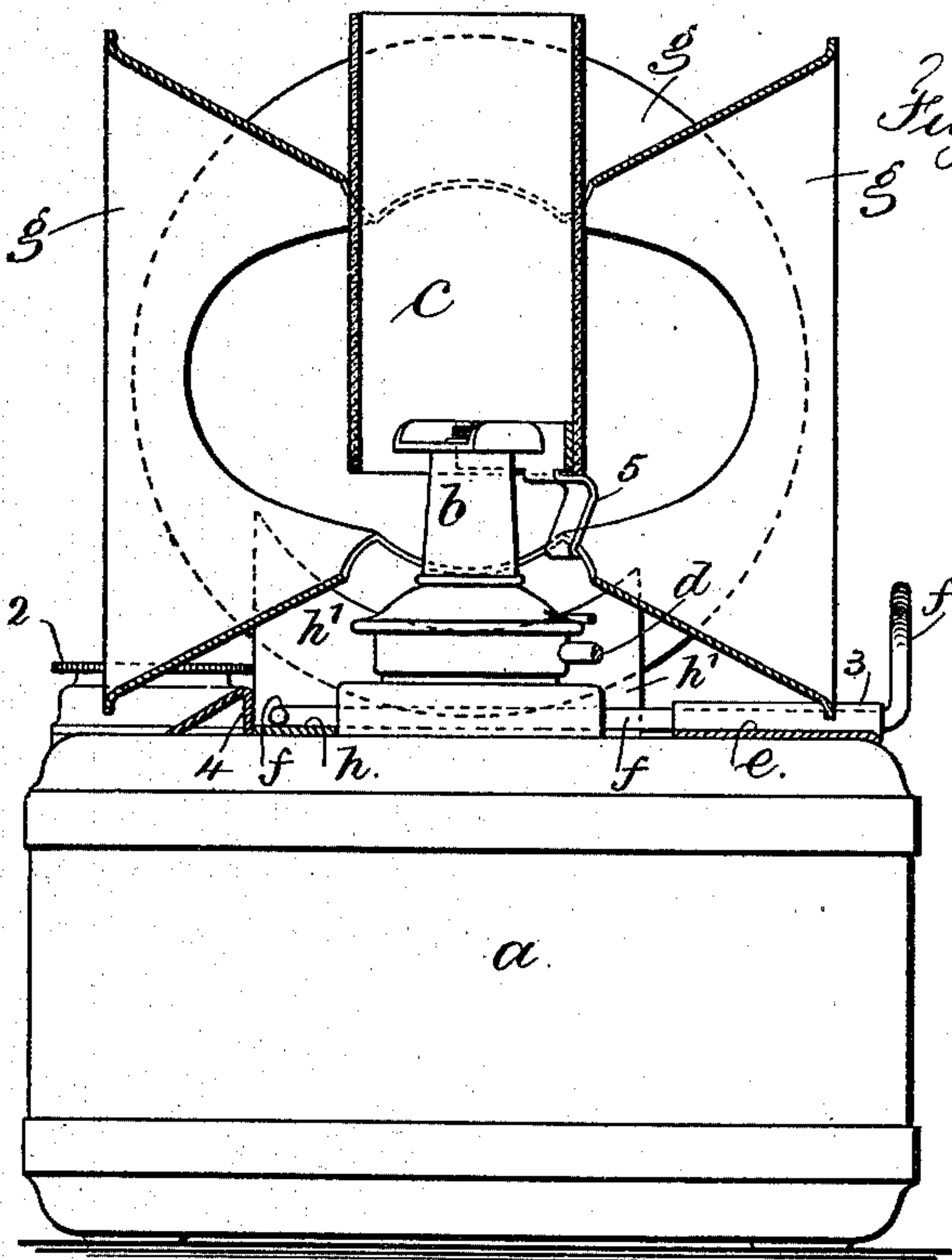


Fig. 3.

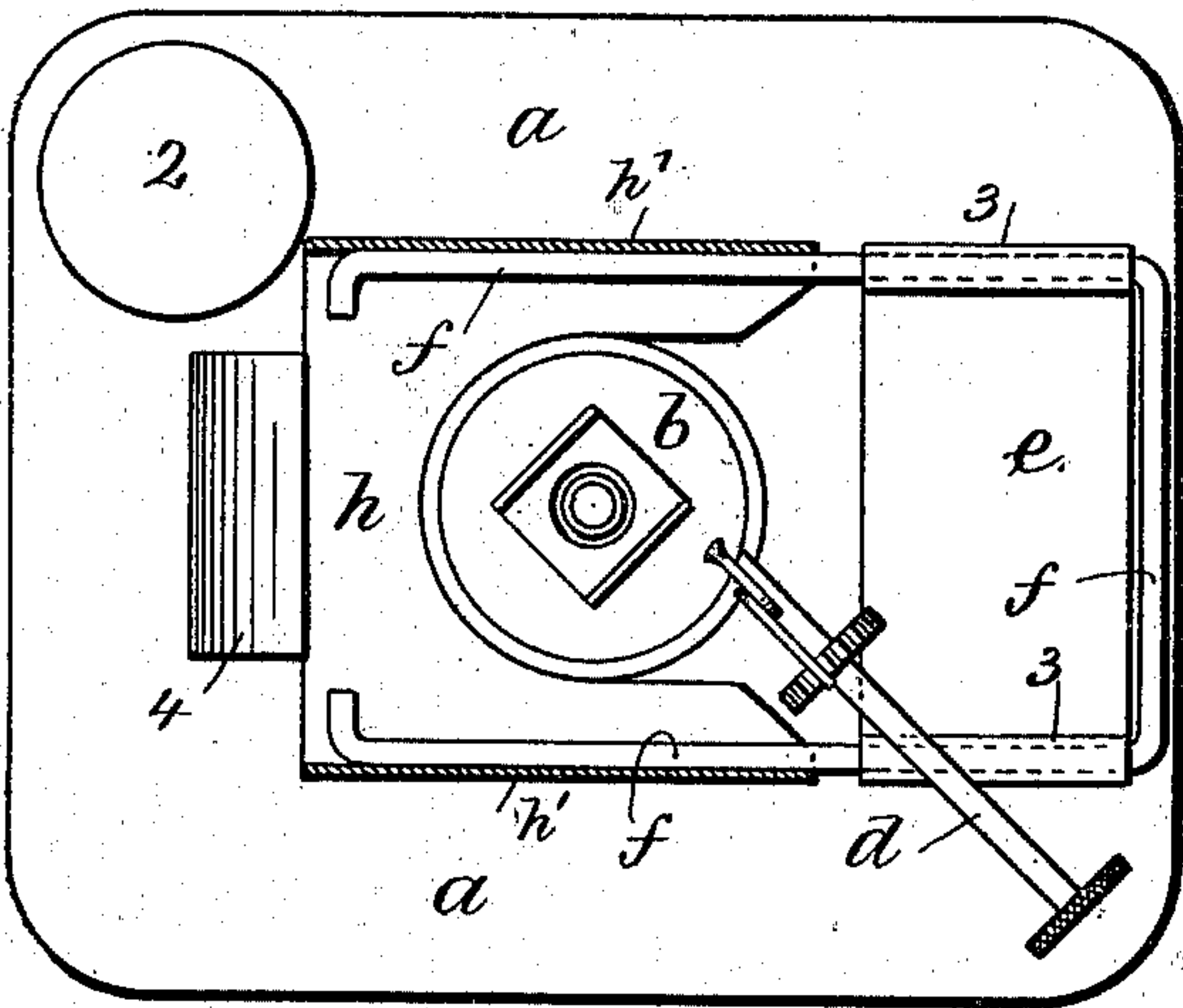
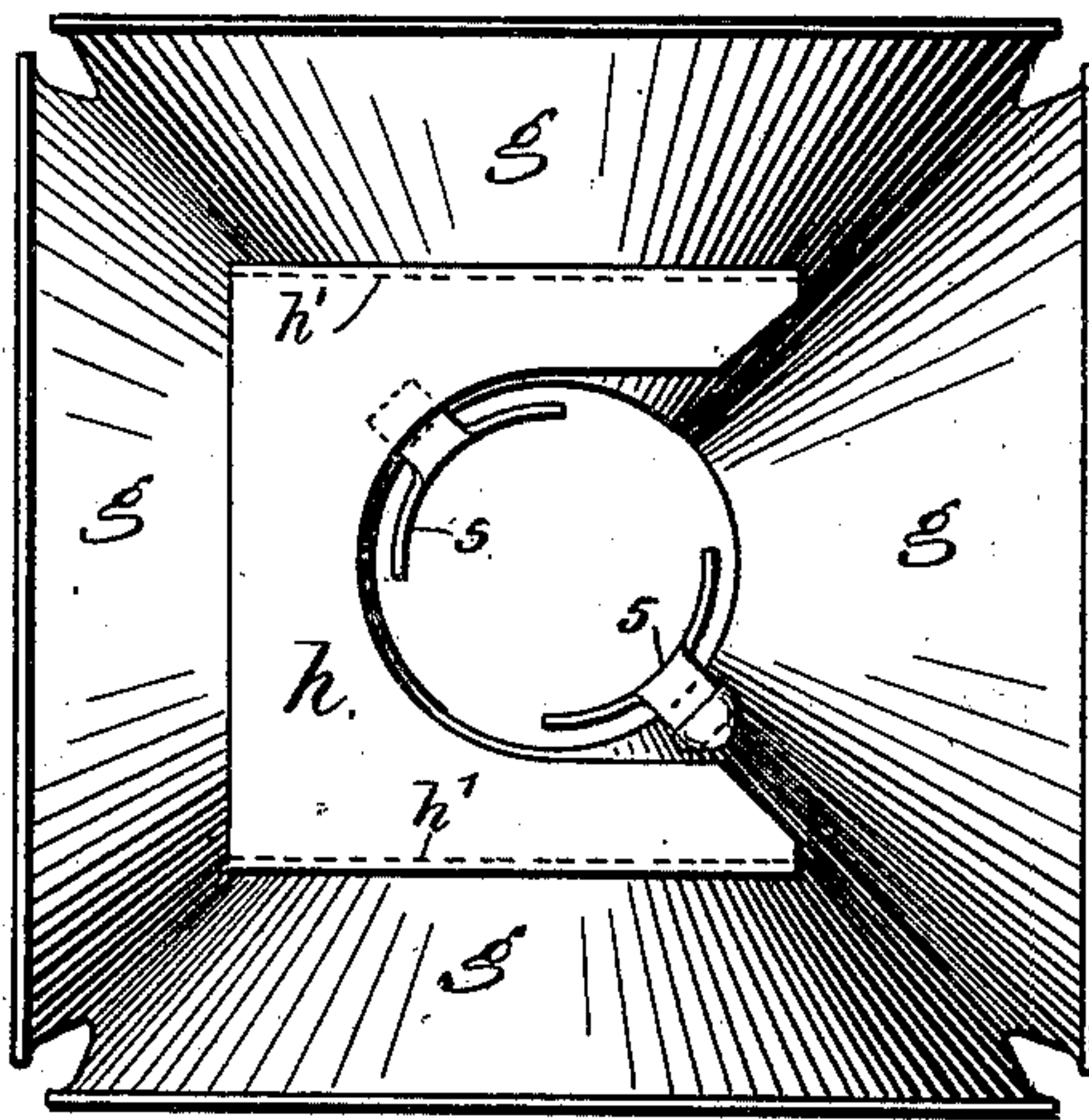


Fig. 4.



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2 SHEETS—SHEET 2.

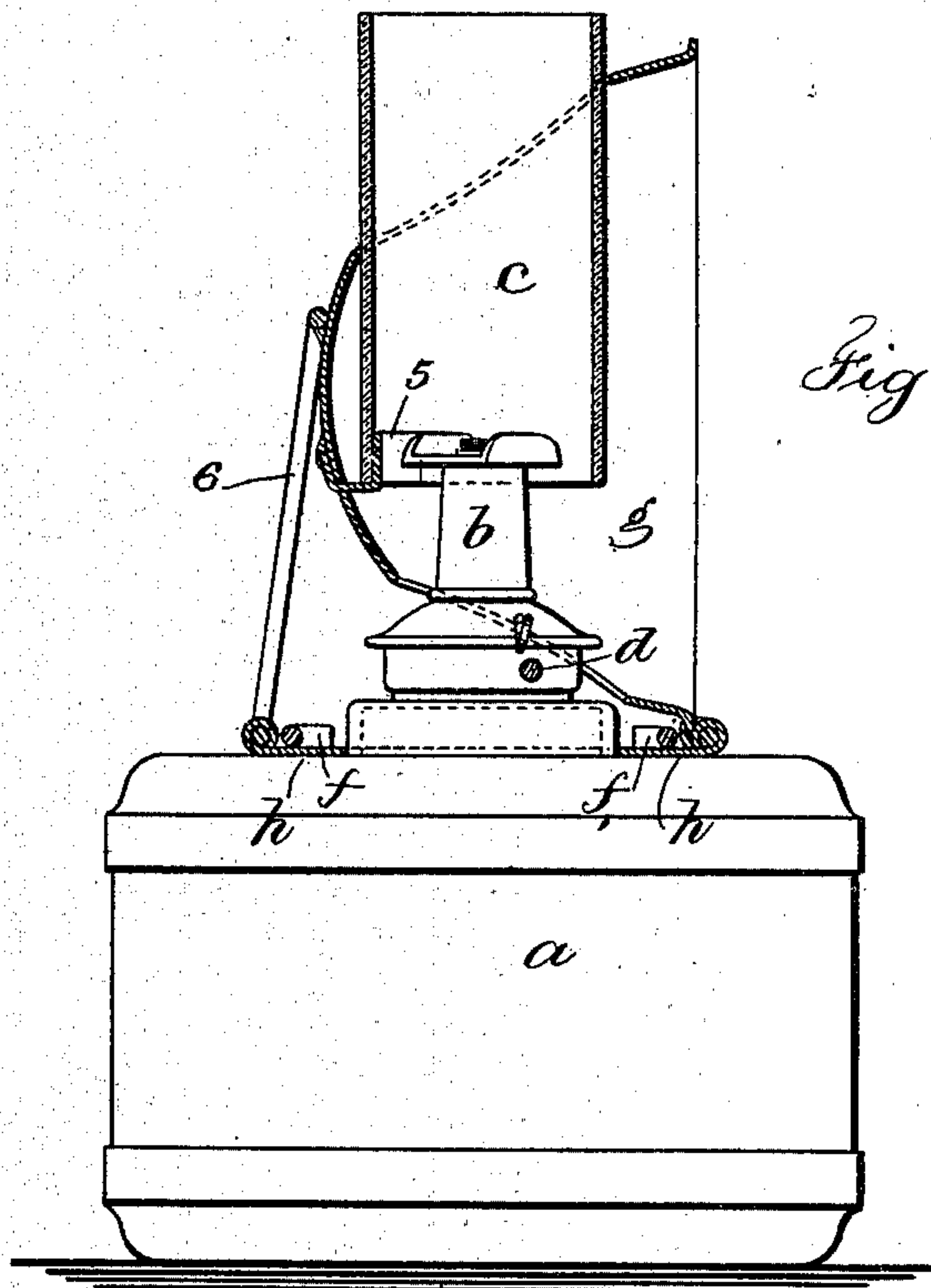


Fig. 5.

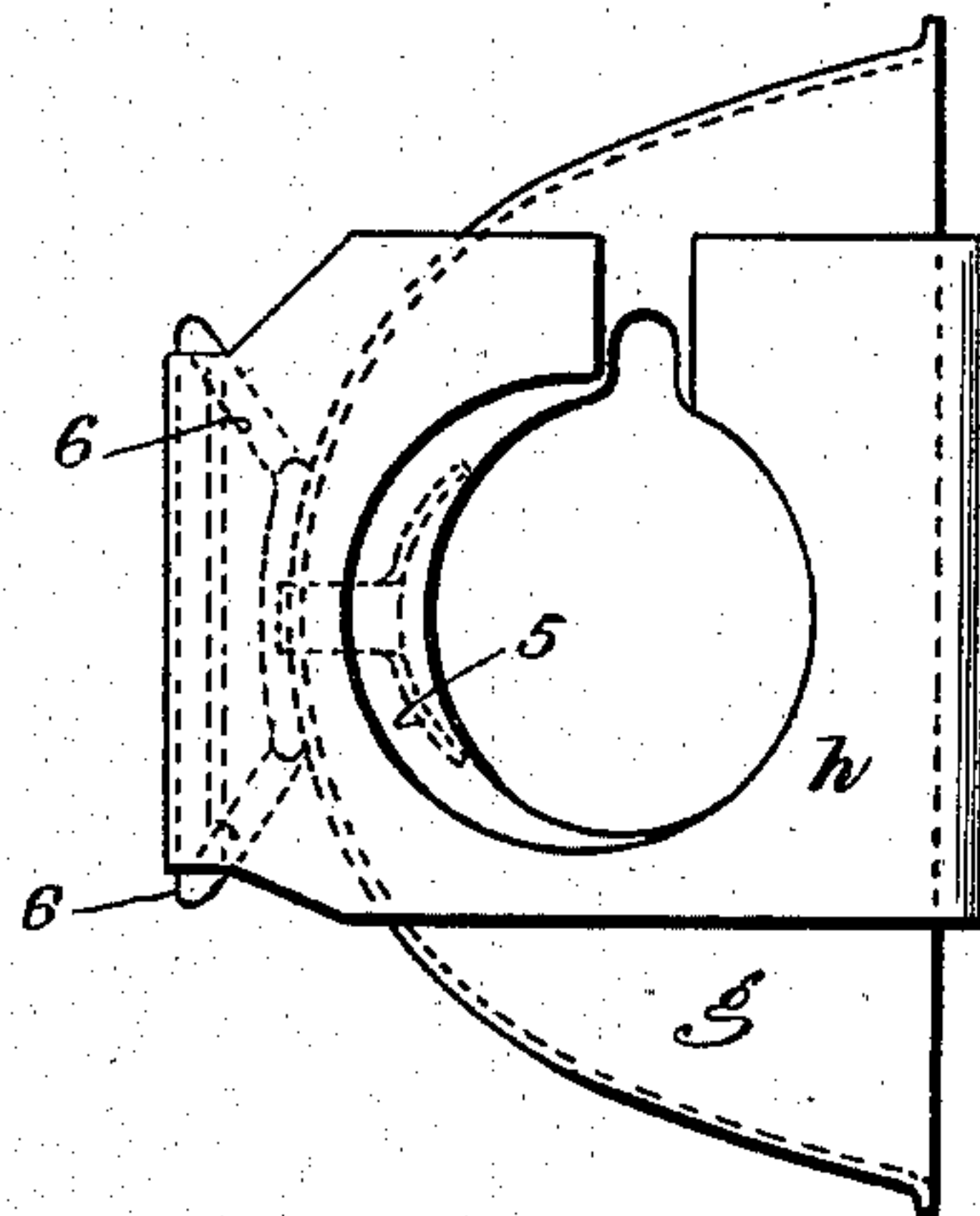


Fig. 6.

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UNITED STATES PATENT OFFICE.

FREDERICK W. DRESSEL, OF NEW YORK, N. Y., ASSIGNOR TO THE DRESSEL RAILWAY LAMP WORKS, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

SIGNAL-LAMP.

SPECIFICATION forming part of Letters Patent No. 723,145, dated March 17, 1903.

Application filed October 1, 1902. Serial No. 125,476. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK W. DRESSEL, a citizen of the United States, residing in the borough of Manhattan, in the city, county, and State of New York, have invented an Improvement in Signal-Lamps, of which the following is a specification.

My invention relates to an improvement in signal-lamps especially adapted for use in the semaphores and switches of railroads. In connection with such signal-lamps my invention is also adapted for use in a lamp having one, two, or four reflectors, it being a fact that the lamps for semaphores are usually employed with one reflector or a two-way reflector and the lamps for switches with four-way reflectors.

My invention relates to the construction of the reflector-base and a device secured to the oil-font for removably engaging the reflector-base, so as to hold the reflector to the font.

I provide a notched apertured plate adapted set over the burner and the wick-raiser shaft carried by the oil-font and to rest upon the top of the font, said plate having sides to which the reflector or reflectors are secured, and upon the top of the oil-font I provide a plate with opposite rolled-over edges and a U-shaped frame of wire, the opposite members of which are received in said rolled-over edges and move longitudinally therein, said frame being adapted to pass over the notched apertured plate secured to the reflectors so as to connect the same removably to the top of the font.

In the drawings, Figure 1 is a side elevation of the font and burner and a vertical section through a four-way reflector and through the chimney. Fig. 2 is a partial elevation and section through the central parts of Fig. 1 and at right angles thereto. Fig. 3 is a plan of the font and parts connected therewith and a sectional plan through the sides of the apertured notched plate to which the reflectors are connected. Fig. 4 is an inverted plan of the four-way reflector and plate connected therewith. Fig. 5 is an elevation and vertical section of a font and one-way reflector, and Fig. 6 is an inverted plan of said reflector and the plate connected therewith.

a represents the oil-font, of sheet metal and

of any desired outline or form. The same is provided with a burner *b*, a chimney *c*, a wick-raiser shaft *d*, and cap 2, the removal of which permits the font to be filled with oil. Upon the font and secured thereto I provide a plate *e*, of sheet metal, with the opposite parallel edges rolled over to form guideways 3. A U-shaped wire frame *f* has its opposite parallel members extending through the guideways 3, with the free ends bent over to prevent the frame withdrawing from the said guideways of the plate *e*. This frame consequently has a longitudinal movement in said guideways, and the connecting portion between said guideways is preferably upturned, as shown in Fig. 1, to be grasped by the hand, so as to move the frame longitudinally. On the oil-font *a* I prefer to place a stop 4, advantageously of sheet metal, soldered to the upper surface.

g represents the reflector. There may be one reflector or a two-way reflector for the semaphore-lamps. A one-way reflector is shown in Figs. 5 and 6. There may be a four-way reflector, as shown in Figs. 1, 2, and 4, for switch-lamps; but I do not limit myself to the number of reflectors, as one, two, or four may be employed to equal advantage with the features of my invention. These reflectors are preferably provided with one or more chimney-supports 5, as shown in Figs. 1, 4, 5, and 6.

I provide a plate *h*, of sheet metal, apertured to pass over the burner and notched to pass by the wick-raiser shaft *d*, so that its under surface may fit down and rest flat upon the upper surface of the oil-font. In Figs. 1, 2, 3, and 4 this plate is shown as provided with sides *h'* at opposite points, which sides extend upwardly and are connected at opposite points to the reflector *g*. In Figs. 5 and 6 this plate has one edge overturned and is connected directly to the edge of the reflector, while at the other side a wire frame 6 is connected at one end to said plate and at the other end to the reflector; but these means for connecting the plate to the reflector are equivalent structures for the purposes intended.

In the position shown in Figs. 1 and 2 the free ends of the U-shaped wire frame *f* pass

over the plate *h*, which is in position around the burner and against the stop 4 and hold said plate in a fixed position with reference to and resting upon the oil-font *a*. Consequently the four-way reflector is held in position to the font and surrounding the chimney *c*, this form of lamp being specially adapted for railroad-switches.

To remove the reflectors and the plate *h*, it is only necessary to grasp the central portion of the frame *f* and pull the same away from the font, sliding the parallel parts of the frame in the guideways 3 until the turned-over free ends stop against said guideways, when the plate *h* is freed and the same and the reflectors can be raised away from the font. In connecting the parts the reverse movement is given to the U-shaped frame of wire *f*, the parts being brought again into the position Fig. 3. The same form of frame and the same movements thereof as hereinbefore described with reference to Figs. 1 to 4 apply to Figs. 5 and 6.

The plate *h*, Fig. 6, is notched with special reference to the location of the wick-raiser shaft *d*, as this lamp, whether provided with a one-way or a two-way reflector, is especially adapted for semaphores.

With the device of my invention the reflectors may be readily and quickly removed from the oil-font for the purpose of cleaning the same and trimming the wick, and the structure is also convenient, because the chimney-supports 5 are connected with the reflectors for supporting the chimney *c*, which is easily removed from the center of the reflector for cleaning.

I claim as my invention—

1. In a signal-lamp, the combination with an oil-font and its burner, of a one or more way reflector, an apertured plate connected

to the reflector and adapted to set over the burner and down upon the font, and a device connected to the font and to which a longitudinal movement may be imparted to cause the same to engage the plate of the reflector and hold the same removably to the font, substantially as set forth.

2. In a signal-lamp, the combination with an oil-font and its burner, of a one or more way reflector, an apertured plate connected to the reflector and adapted to set over the burner and down upon the font, and a frame of wire and guideways for securing the same to the top of the font and to which frame a longitudinal movement may be imparted to extend a part of the same over said plate of the reflectors and secure the same removably to the font, substantially as set forth.

3. In a signal-lamp, the combination with an oil-font and its burner, of a one or more way reflector, an apertured plate connected to the reflector and adapted to set over the burner and down upon the font, and a U-shaped frame of wire having its central portion upturned and its free ends bent over, and a plate with opposite parallel edges rolled over and said rolled-over parts receiving and forming guides for the parallel portions of said U-shaped frame of wire, said frame being longitudinally movable in said guideways to cause its free ends to pass over the plate of the reflector and hold the same removably to the top of the oil-font, substantially as set forth.

Signed by me this 17th day of September, 1902.

FREDERICK W. DRESSEL.

Witnesses:

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BERTHA M. ALLEN.