No. 725,302. PATENTED APR. 14, 1903.

E. H. WADE.

SIGNAL LANTERN.

APPLICATION FILED NOV. 8, 1902.

NO MODEL.

Fig. 1.

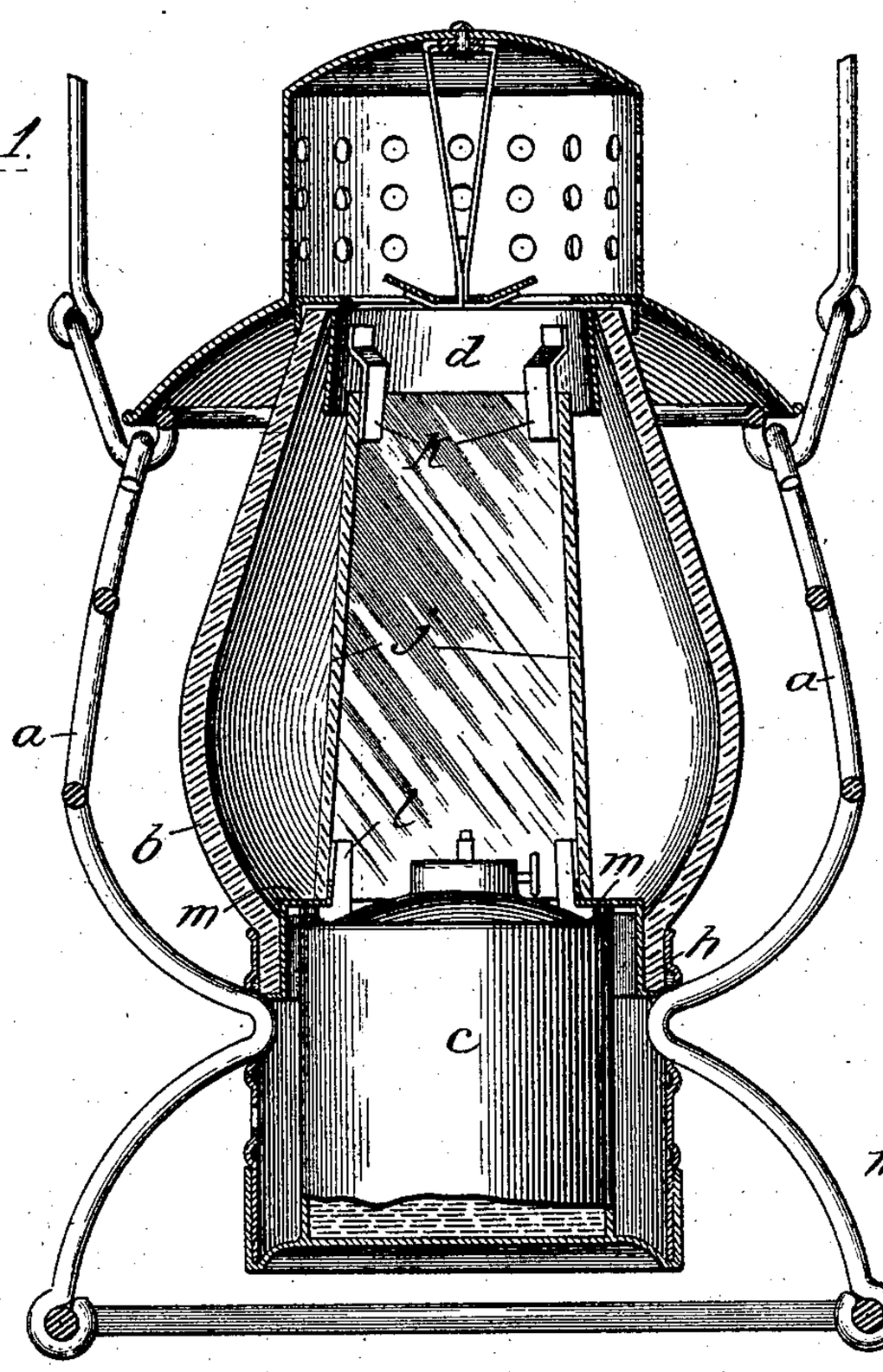


Fig. 2.

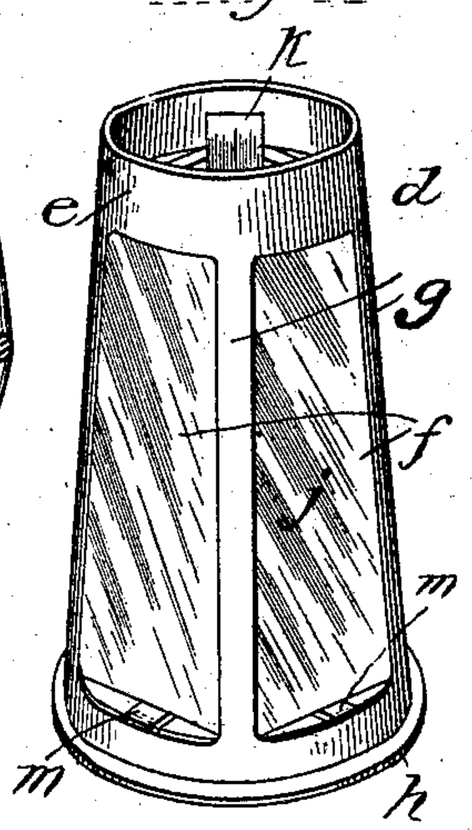


Fig. 3.

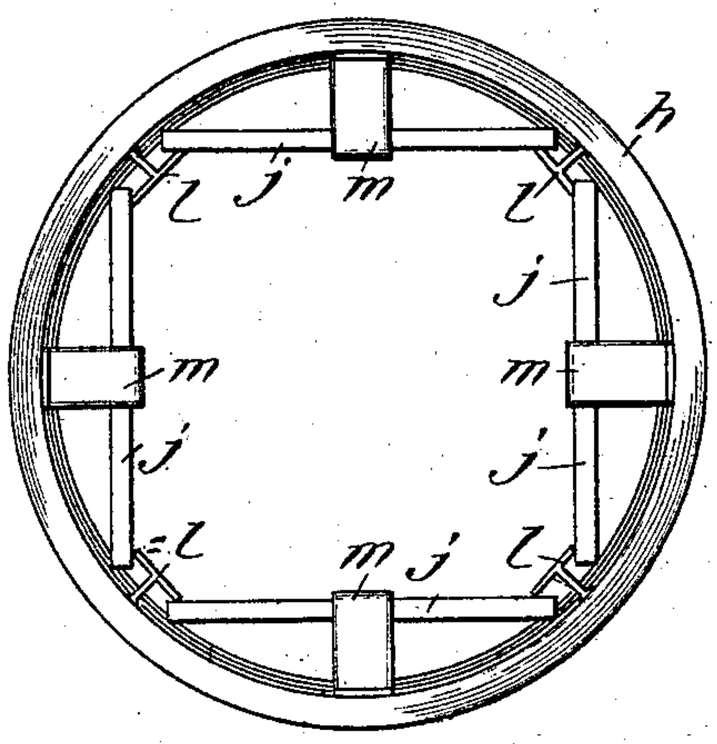
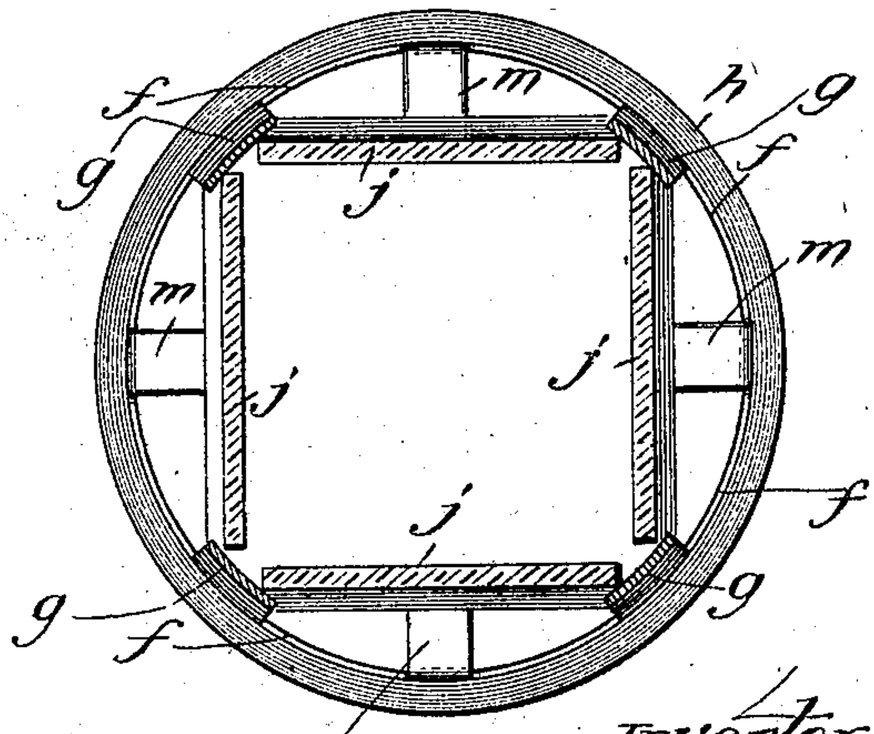


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

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SIGNAL-LANTERN.

SPECIFICATION forming part of Letters Patent No. 725,302, dated April 14, 1903.

Application filed November 8, 1902. Serial No. 130,496. (No model.)

To all whom it may concern:

Be it known that I, EVAN H. WADE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Signal-Lanterns, of which the following is a specification.

My invention relates to certain improvements in colored signal-lanterns, and is designed to produce a device of the class described which can be manufactured more cheaply than those now in use and which will at the same time produce identically the same results in furnishing a signal-lantern of any desired color.

My invention is further designed to increase the efficiency of these devices by providing additional protection for the flame in case the glass globe ordinarily employed in connection therewith should accidentally become broken.

My invention is further concerned with an attachment by which an ordinary white-light lantern can be transformed to a colored signal-lantern whenever desired and also with a signal-lantern which by using a plurality of my attachments can be changed to any color that may be desired.

To illustrate my invention I annex hereto a sheet of drawings, in which the same reference characters are used to designate identical parts in all the figures, of which—

Figure 1 is an elevation in central vertical section of a lantern containing my improvement. Fig. 2 is a perspective view of the attachment for furnishing the desired signal color. Fig. 3 is an inverted plan view of the same, and Fig. 4 is a plan view in section on the line A A of Fig. 1.

In the drawings, *a* is the framework, which may be of any desired construction and contains the plain glass globe *b* and is provided with the oil reservoir and burner *c*, all of which parts may be of any desired customary construction. In connection with this ordinary lantern I employ my improvement or attachment *d*, which consists, essentially, of a cover or chimney of colored glass or other transparent or translucent material adapted to fit into the globe *b* over the burner and to change the lantern from one showing a plain white light to one showing a light of whatever the color the glass compasing the attachment may be made. In providing a cheap and durable construction for this chimney or attachment I form a preferably slightly conical cylinder *e* of some sheet metal and having, preferably, substantially rectangular apertures *f* cut therein, so as to leave the top and bottom rings of metal connected by the vertical strips *g*. A convenient design is to provide four of these apertures *f*, separated by the four equidistant strips *g*. A horizontal flange *h* may be formed on the bottom to rest against the bottom of the globe *b*. The transparent portion of the attachment or chimney is preferably formed of substantially rectangular plates *j*, of sheet glass, mica, &c., of the color it is desired to give to the lantern, and these plates of glass are held in place with their vertical edges adjacent the strips *g* by the clips or lugs *k*, fastened to the interior of the upper ring above the strips *g*, and by similar strips or clips *l*, similarly located on the lower ring. I preferably make these lower clips *l* with their bottoms open in order that the sheets of glass may be slid in place and support the sheets of glass at the bottom by the Z-shaped lugs or projections *m*, which may be formed integral with the lower ring or soldered to the interior surface thereof.

The use of my apparatus will now be readily apparent. When it is desired to transform a plain lantern into a signal-lantern of any desired color, the attachment *d* is placed in the globe *b*, the upper ring fitting snugly in the top of the globe, while the flange *h* at the lower end thereof rests against the bottom of the globe and is held in place by the oil-cup *c* when it is put into place after the attachment is inserted. When it is desired to have a plain white light, the attachment is removed, or if a signal-light of a different color is desired the attachment is removed and replaced by one having glass of the desired color.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As a new and useful article of manufacture, an attachment for lanterns consisting of a chimney or globe of a colored light-transmitting material adapted to be inserted within the globe of a lantern and having the small

upper end adapted to fit snugly in the top of the globe and the larger lower end adapted to be secured between the bottom of the globe and the oil-cup and held in place thereby.

2. As a new and useful article of manufacture, an attachment for lanterns consisting of a chimney or globe of a colored light-transmitting material adapted to be inserted within the globe of a lantern and composed of a conical retaining-shell with apertures in the sides thereof, and plates of light-transmitting material in said apertures, and having the small upper end adapted to fit snugly in the top of the globe, and the larger lower end adapted to be secured between the bottom of the globe and the oil-cup and held in place thereby.

3. As a new and useful article of manufacture, an attachment for lanterns consisting of a chimney or globe of a colored light-transmitting material adapted to be inserted within the globe of a lantern and composed of the conical retaining-shell *d* having the horizontal flange *h* at its bottom and apertures *f* in its sides, the plates *j* of light-transmitting material, and the clips *k* and *l* on the interior of the shell for holding the plate in place, the small upper end being adapted to fit snugly in the top of the globe and the larger lower end being adapted to be secured with the flange *h* between the bottom of the globe and the oil-cup and held in place thereby.

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

EVAN H. WADE.

Witnesses:

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E. MOLITOR.