

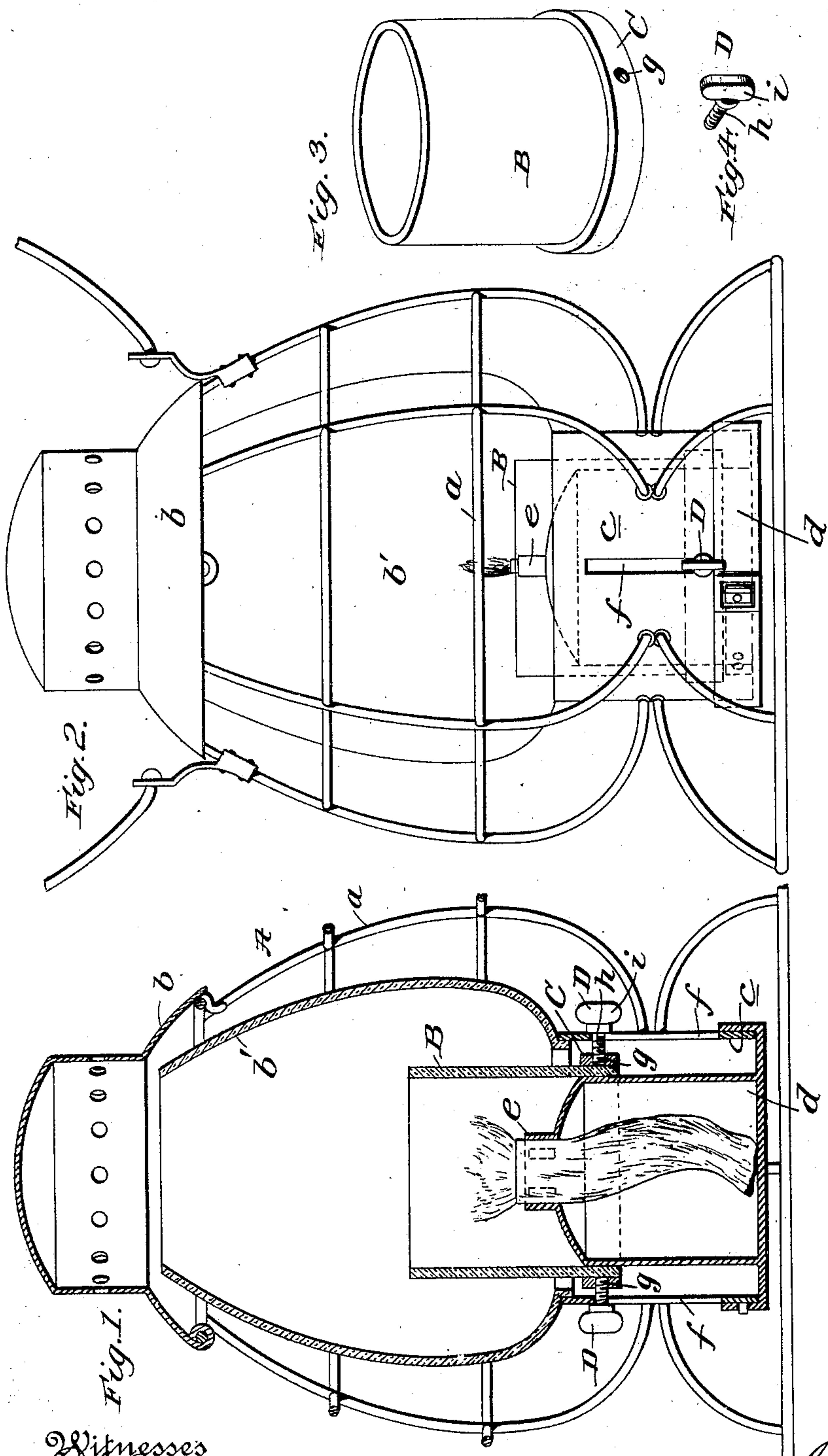
No. 707,545.

Patented Aug. 26, 1902.

G. H. BRADET.
SIGNAL LANTERN.

(Application filed Mar. 10, 1902.)

(No Model.)



Witnesses
H. Baeder
N. C. Healy

Inventor
George H. Bradet
By *James Sheehy* Attorney

UNITED STATES PATENT OFFICE.

GEORGE HENRY BRADET, OF ST. PAUL, MINNESOTA, ASSIGNOR OF ONE-HALF TO GEORGE GOBLISCH, OF ST. PAUL, MINNESOTA.

SIGNAL-LANTERN.

SPECIFICATION forming part of Letters Patent No. 707,545, dated August 26, 1902.

Application filed March 10, 1902. Serial No. 97,633. (No model.)

To all whom it may concern:

Be it known that I, GEORGE HENRY BRADET, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented new and useful Improvements in Signal-Lanterns, of which the following is a specification.

My invention relates to improvements in that type of signal-lantern which is equipped with an adjustable colored shade, whereby it may be made to display a white light or a colored light at the will of the user.

The invention consists in a certain specific construction the novelty, utility, and advantages of which will be fully understood from the following description and claim when taken in conjunction with the annexed drawings, in which—

Figure 1 is a vertical section of a signal-lantern embodying my invention; Fig. 2, an elevation of the same, taken at right angles to Fig. 1; Fig. 3, a perspective view of the colored shade forming part of my improvements, and Fig. 4 a similar view of one of the screws comprised in the improvements.

Similar letters of reference designate corresponding parts in all the views of the drawings, referring to which—

A is a signal-lantern, which, like the ordinary railroad-lantern, comprises a frame *a*, a top *b*, a white shade *b'*, a cylindrical casing *c*, arranged within and connected to the frame, and a removable oil-cup *d*, arranged within the cylindrical casing *c* and having a wick-tube *e*. Said lantern, however, is peculiar in that its cylindrical casing *c* is provided at diametrically opposite points with vertical slots *f*.

B is a cylinder of red glass, which has secured on the exterior of its lower portion by cement or other means a heavy metallic band C, provided at diametrically opposite points with threaded sockets *g*. The said cylinder surrounds the oil-cup *d* and is adjustable vertically between the same and the cylindrical casing *c*.

D D are screws having threaded shanks *h* and heads *i*. The said screws are applied after the manner shown in Fig. 1—*i. e.*, their shanks are passed through the slots *f* in casing *c* and into the threaded sockets *g* of shade B, while their heads are arranged to bind

against the outer side of the said casing *c*. By virtue of this construction it will be observed that when the screws are turned outwardly the shade B may be conveniently raised or lowered through the medium of the same; also, that when said screws are turned inwardly until their heads bind against the casing *c* they will serve to securely fix the shade B either in the position shown in Fig. 2 or in the position shown in Fig. 1. With the shade B in the former position the lantern will obviously display a white light, while when the shade is in the latter position a red light will be displayed. The ability of the screws D to securely fix the shade B either in the position shown in Fig. 2 or in the position shown in Fig. 1 is materially advantageous, since it precludes casual movement of the shade when the lantern is swung violently to and fro or around by a trainman and also when the lantern is suddenly moved vertically.

It will be appreciated from the foregoing that the light of a lantern embodying my improvements may be changed from white to red, and vice versa, with great facility, and this without liability of casual movement of the shade B and the consequent change in the color of the light displayed. It will also be appreciated that the application of my improvements to an ordinary signal-lantern entails but the provision of the slots *f* in the casing *c* thereof and that the shade B may be quickly and easily removed from the lantern for cleaning or any other purpose after the oil-cup *d* is removed and may be as readily replaced and secured in the lantern. Moreover, it will be noticed that the metallic band C lends weight to and causes the shade B to quickly fall to its lowermost position when the screws D are loosened and also prevents breakage of the fragile shade incident to such quick fall.

I am well aware that it is old in a standard for a drop-light to combine a slotted tube, a vertically-adjustable tube arranged in the slotted tube, and a set-screw carried by the vertically-adjustable tube and movable in the slot of the first-mentioned tube and adapted to engage said tube; that it is old in signal-lanterns to provide a vertically-adjustable shade with projections movable in bayo-

net-slots in a casing of the lantern, whereby the said colored shade may be adjustably fixed in its upper and lower positions, and that it is also old in signal-lanterns to thread
5 the lower end of the colored shade and surround the same with a metallic band to which is attached a spring-holder for securing the shade in its upper and lower positions. I therefore make no claim to such constructions, but

10 What I claim, and desire to secure by Letters Patent, is—

The herein-described signal-lantern consisting essentially of the white shade, the
15 casing *c* provided at diametrically opposite points with the vertical slots *f*, the removable oil-cup, of less diameter than the casing *c*, arranged in said casing, the colored-glass shade *B* surrounding the oil-cup and adjustable
20 vertically between the same and the casing *c*, the heavy metallic band *C* secured on the ex-

terior of the lower portion of the shade, whereby weight is lent to the shade, and the same is enabled to quickly fall when released; said band *C* having threaded sockets 25 at diametrically opposite points, and being also adapted to prevent breakage of the shade *B* when the same falls, and the screws *D* having threaded shanks extending through the slots *f* of the casing *c* and into the threaded 30 sockets in the metallic band *C*, and also having heads arranged to bind against the outer side of the casing *c*, all as and for the purpose set forth.

In testimony whereof I have hereunto set 35 my hand in presence of two subscribing witnesses.

GEORGE HENRY BRADET.

Witnesses:

J. DRUMMOND,
SILAS E. FOREMAN.