

(No Model.)

V. GROOM.
DARK LANTERN.

No. 523,521.

Patented July 24, 1894.

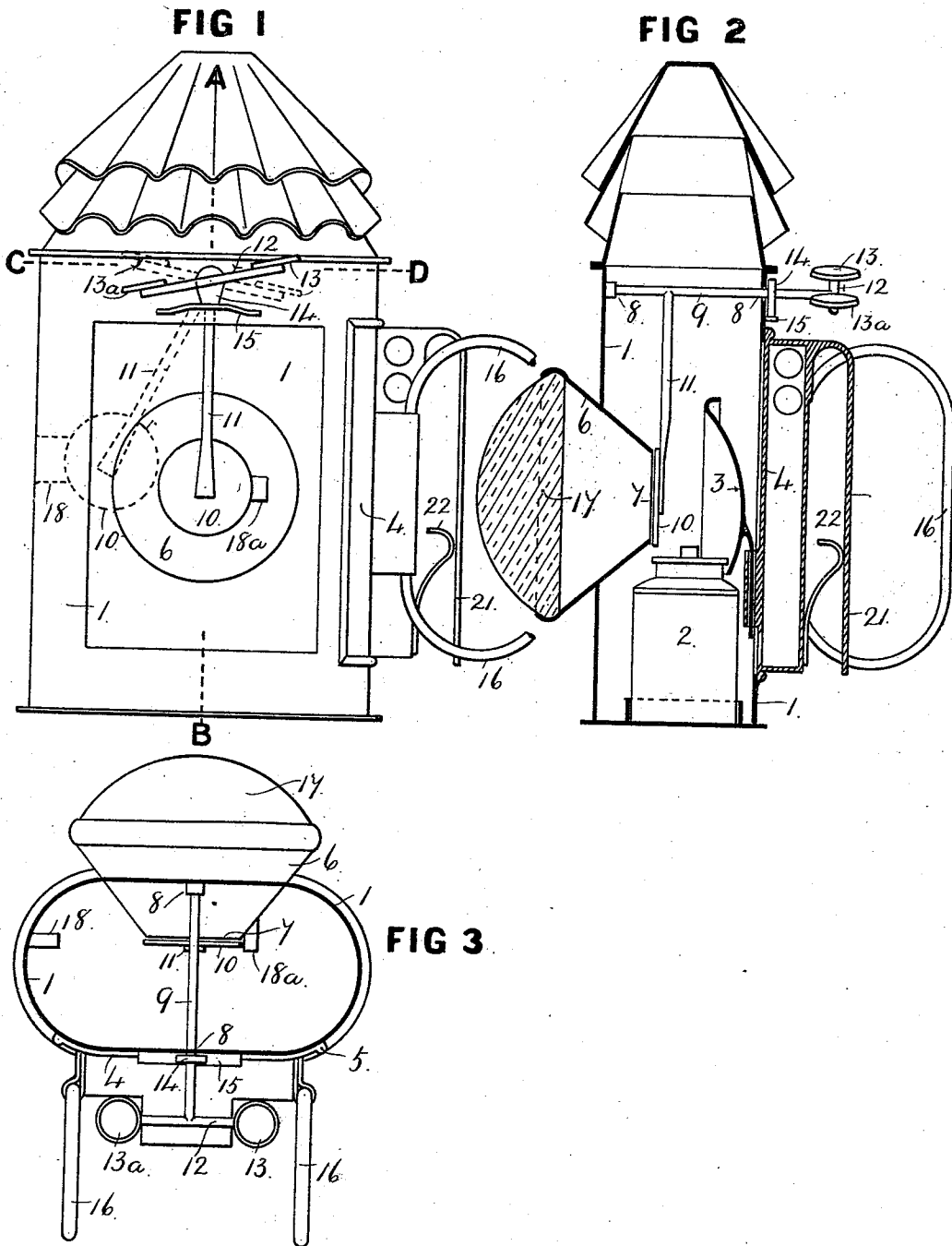


FIG 3

Witnesses
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UNITED STATES PATENT OFFICE.

VINCENT GROOM, OF WOLVERHAMPTON, ENGLAND.

DARK LANTERN.

SPECIFICATION forming part of Letters Patent No. 523,521, dated July 24, 1894.

Application filed February 17, 1893. Renewed May 21, 1894. Serial No. 512,017. (No model.) Patented in England May 2, 1892, No. 8,252.

To all whom it may concern:

Be it known that I, VINCENT GROOM, a subject of the Queen of Great Britain, residing at Oaken, Wolverhampton, in the county of Stafford, England, have invented new and useful Improvements in Lanterns, (for which I have obtained a patent in Great Britain, No. 8,252, bearing date May 2, 1892,) of which the following is a specification.

10 My invention relates to improvements in the construction and arrangement of lanterns, in which the light may be readily exposed or hidden, at the will of the person carrying it; and its objects are to provide an improved
15 arrangement of a double ended pressure bar by which the mechanism is operated; and an improved method of carrying and operating the covering shutter or disk. I effect these objects by the mechanism illustrated in the
20 accompanying drawings, in which are numbers of reference, similar numbers referring throughout the several views to the same thing or part.

25 Figure 1, is a general rear view of this my invention in which the door of the lantern is shown open. Fig. 2, is a side sectional elevation of the invention on or about the line A—B (Fig. 1). Fig. 3, is a sectional plan view of the invention on line C—D (Fig. 1).

30 1, is the body of the lantern, which may be of any desirable sectional shape.

2, is the oil container or lamp, which is made removable from the lantern by sliding or otherwise in the ordinary manner.

35 3, is the reflector which may be removably or permanently attached either to the lamp 2, or it may be similarly carried upon the door 4, as shown. The door 4, is hinged at 5.

40 6, is an inwardly reflecting cone, having the usual contracted aperture at 7.

Carried in suitable bearings at 8, 8, is a horizontal spindle 9, to which is connected the pendulous disk 10, by means of the rod 11. This disk 10, (as may be seen) is arranged to cover the aperture 7, or to be removed clear of it. At the other end of the

spindle 9, is the double ended pressure bar 12, having the tips 13, 13^a.

14, is a cam upon the spindle 9, whose irregular or nonconcentric form, impinges upon 50 the spring 15, which latter is secured at its one or both ends to the body of the lamp, so as to be slightly springy at its center. The object of this spring 15, and cam 14, is that thereby, the open or closed position of the 55 disk 10, shall be maintained, without fear of unwilled or accidental movement. The position of the pressure tips 13, and 13^a, being at the rear of the lamp body and also just above the handles 16, 16, is such, that the person 60 carrying the lamp, can readily effect the opening or closing of the light through the lens 17, with one and the same hand.

Suitable stop pieces 18, 18^a, may be fixed as shown, or otherwise, to adjust or limit the 65 open or closed position of the disk 10, and may if desired consist of or be covered with such material that will be noiseless in action.

21, is a belt hook and 22, a gripping spring for same, but these have no reference to this 70 my invention.

The usual and necessary perforations, &c., for ventilation and other common details, may be made and arranged according to require- 75 ment.

I am aware that prior to my invention lanterns have been made with slides or covers for shutting off the light when required, and therefore I do not claim such a combination broadly, but 80

What I do claim as my invention, and desire to secure by Letters Patent, is—

In hand lanterns, the double ended pressure bar 12 with thumb tips 13, 13^a, and horizontal spindle 9, arranged to operate in combination with the lens 17 and dark disk 10, 85 and reflecting cone 6 and lamp 2, as described and shown.

VINCENT GROOM.

Witnesses:

ERNEST W. JONES,
CHARLES H. POWELL.