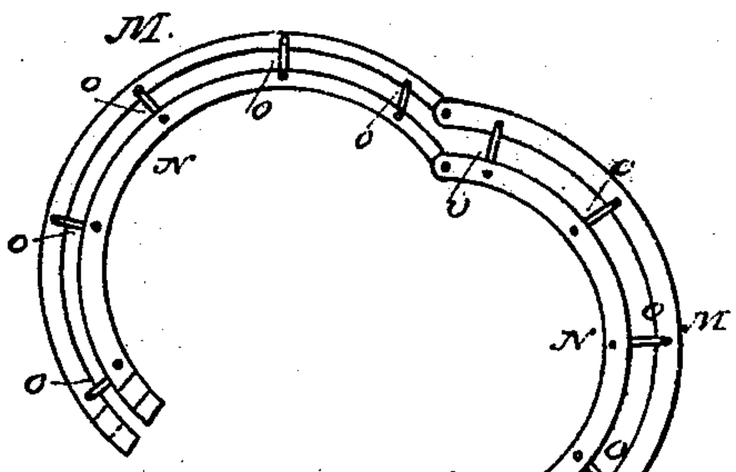
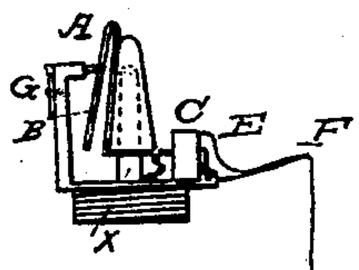
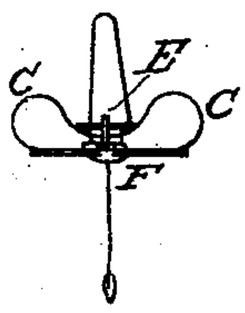
C. H. BUTTERFIELD.

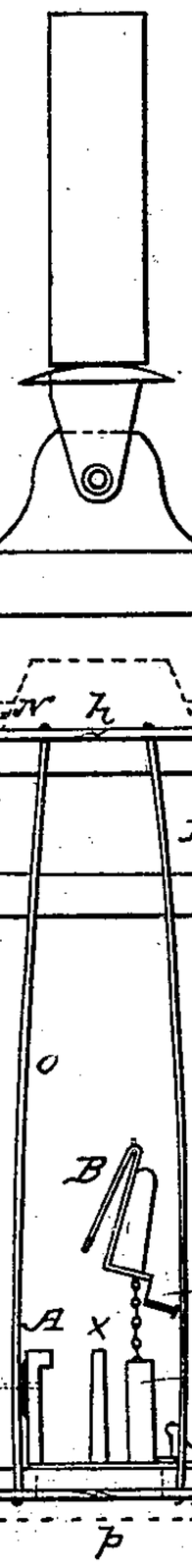
Lantern.

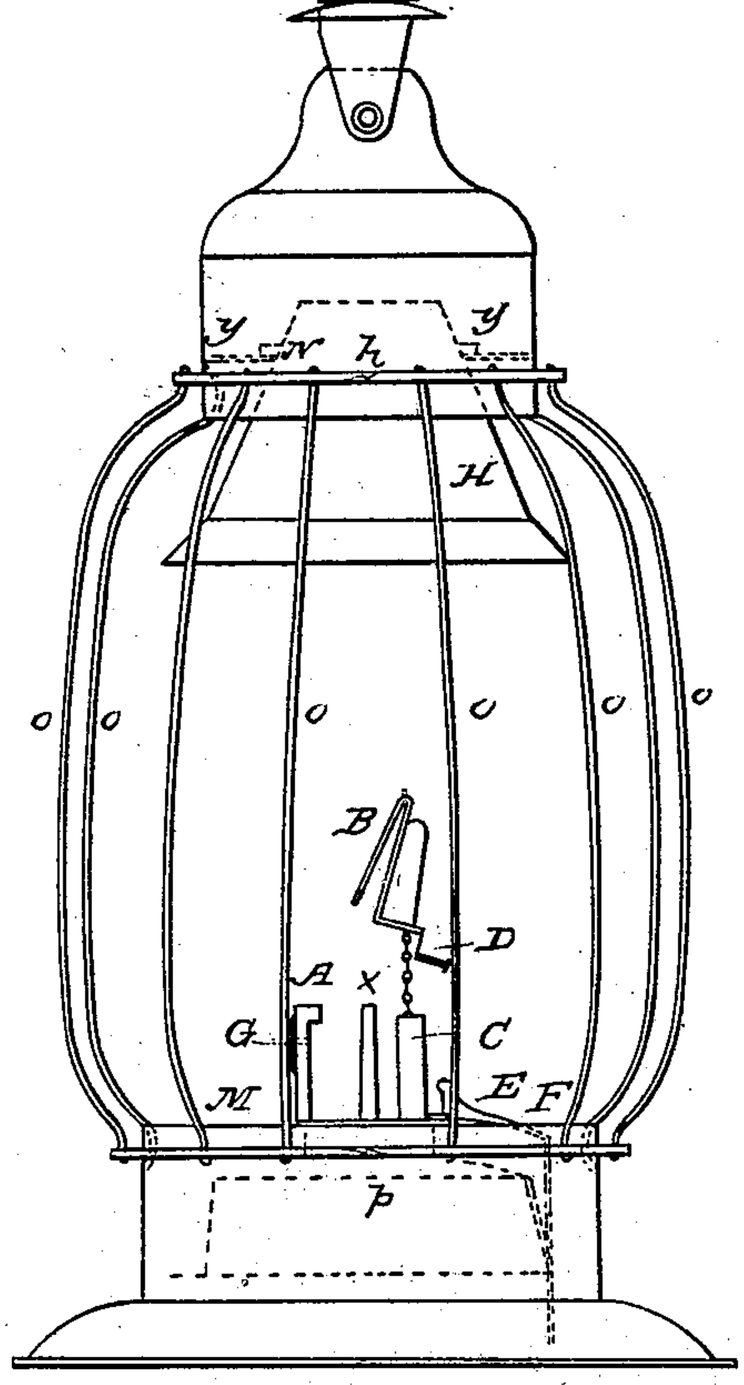
No. 13,250. Patented July 17, 1855.











Inventor.
C H Butterfield

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

C. H. BUTTERFIELD, OF SOUTH LANCASTER, MASSACHUSETTS.

LANTERN.

Specification of Letters Patent No. 13,250, dated July 17, 1855.

To all whom it may concern:

Be it known that I, C. H. BUTTERFIELD, of South Lancaster, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Lanterns; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the drawings herewith presented and to the letters of reference marked thereon.

The principles of the construction of my improvements are, to the top of the lamp attach a match holder A so as to hold a match sufficiently near the wick tube *x* and attach to the cap or extinguisher a plate B with a rough surface, having a yielding or springing surface to enable it to rub the match to ignite it without rubbing off the end or spoiling the match, and not requiring the match to be placed in exactly the same position every time; attach or place the spring C, so that when the cap is put on it shall force down the spring as by the projection D and be caught and held by the catch E, having a lever F to which is attached a wire or cord to extend down through the bottom of the case or lamp. On the back side of the match holder A put a cam or wedge G to hold the match firmly in place. In the upper part of the lantern put the conical protector H supported by pins resting on the plate Y and movable by turning partly around when the pins pass through notches cut for them, allowing the protector to be taken out to be cleaned if necessary; this protector extending below the small part of the glass and having a draft up through as well as around it saves it from being broken by the heat of the flame when inclined to either side, thereby very much increasing the safety of the lantern.

To the outside of the lantern I fit a movable guard, made so by making a joint or hinge in the rims M N, holding the ends of the rods *o*, *o*, and making notches *p*, *p*, so that the ends shall lock and hold by the spring of the rods *o*, *o*, by which means the guard may easily be removed or put on.

These improvements are applicable to most any of the glass "globe lanterns" so called the other parts of which it is not thought necessary to describe more minutely. The operation of the guard is apparent; the advantage of its being movable are in order to clean the glass at any time and when the glass is broken the guard is easily removed and a new glass put in and the guard replaced. The operation of the protector H is perhaps sufficiently described.

The operation of the lighting apparatus is to put the cap on forcing down the spring and place the catch so as to hold it; put a match into the holder so as to nearly touch the plate; turn the cam to fasten it and break off the remainder of the match and the lamp is ready to be put into the case, and is ready to light at any time by pulling the wire or cord at the bottom, which releasing the spring it throws off the cap and ignites the match which lights the lamp, it being filled with burning fluid or a similar substance or if oil is used a little turpentine touched to the wick before putting on the cap.

I do not claim any particular form of spring nor the application of my improvements to any particular style or kind of lamp or lantern; but

What I do claim as new and desire to secure by Letters Patent is:

Attaching a yielding or springing plate to the cap in combination with a match-holder so that lifting or throwing off the cap shall light a match placed so as to light the wick or lamp.

In witness whereof I have hereunto set my hand.

C. H. BUTTERFIELD.

In presence of—
D. H. O'NEILL,
JAS. G. ARNOLD.