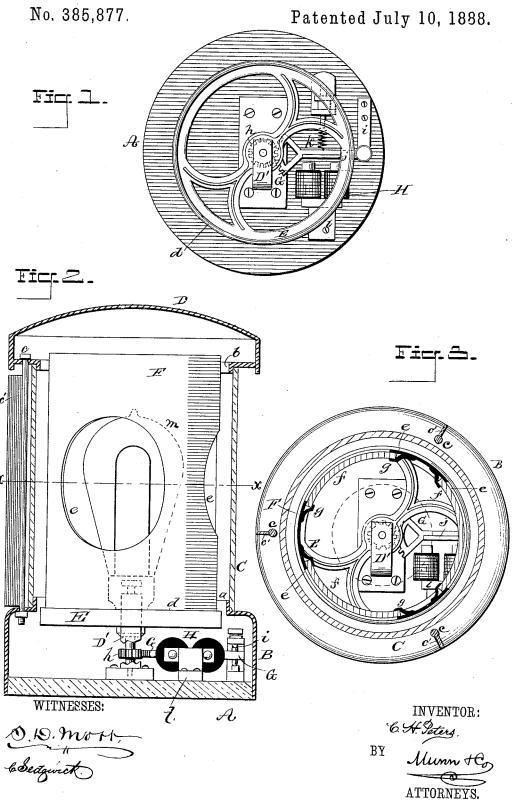
C. H. PETERS.

## RAILWAY SIGNAL LANTERN.



## UNITED STATES PATENT OFFICE.

CHRISTIAN H. PETERS, OF DANVILLE, ILLINOIS.

## RAILWAY SIGNAL-LANTERN.

SPECIFICATION forming part of Letters Patent No. 385,877, dated July 10, 1888.

Application filed February 28, 1888. Serial No. 265,602. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN H. PETERS, of Danville, in the county of Vermilion and State of Illinois, have invented a new and Im-5 proved Railway-Signal, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in

Figure 1 is a plan view of a portion of my 10 improved railway-signal. Fig. 2 is a side elevation, partly in section; and Fig. 3 is a horizontal section taken on line x x in Fig. 2.

Similar letters of reference indicate corre-

sponding parts in all the views.

The object of my invention is to construct a simple and effective block-signal for railways.

My invention consists in the construction and arrangement of parts, as will be herein-

after fully described and claimed.

To the base A is attached a casing, B, which extends upward and is curved inwardly and provided with a collar, a, for receiving the hollow glass cylinder C. To the top of the cylinder is fitted a hollow cap, D, provided with 25 a collar, b, fitted to the glass cylinder C. The

cap D and casing B are connected by bolts c, which draw them into close contact with the ends of the glass cylinder C. To each bolt is attached a plate, c', for screening the bull's-

30 eyes which are not to be displayed.

To the center of the base A is secured a frame, D', in which is pivoted a wheel, E, having a flange, d, upon its upper surface for receiving the metallic cylinder F, which is secured to 35 the wheel E in any convenient way. The metallic cylinder F is provided with several openings, e, behind which are placed the windows f, of different-colored glass, and the sides of the cylinder F are colored to correspond with the 40 color of the bull's-eye inserted in it. In the present case there are three openings and three windows, the glass of each window being held in place by a flange, g, extending around the openings e. The glass windows f are bent to 45 conform to the curvature of the metallic cylinder F. The wheel E carries a pinion, h, which is engaged by a toothed sector-lever, G, pivoted in the frame i, attached to the base A.

The sector-lever G carries an armature, j, and is drawn backward by the adjustable re- 50 tractile spring k. The electro-magnet H is supported by the bracket l, attached to the base A, the said magnet being held in position to act upon the armature j. The magnet H is placed in the block-signal line, and when the 55 circuit is closed by any of the well-known instruments used for that purpose the armature j is drawn toward the magnet, thereby turning the wheel E and cylinder F about one-third of a revolution. The cylinder F contains an in- 60 candescent electric lamp, m, the light of which is colored by the colored glass windows f.

The lantern may be used for block-signals to indicate when a section of the road is occupied, or it may be used with advantage at the 65

crossings of the road.

Having thus described my invention, I claim as new and desire to secure by Letters Pat-

ent-

1. The combination, with the signal-lamp 70 carrying a gear-wheel, of a lever having a segment engaging said gear and an armature, an electro-magnet for throwing the lever, and means for returning the lever to its normal

position.

2. The combination, with the bottom casing, B, a cylinder resting thereon, the cap D on top of the said cylinder, and the bolts connecting the cap and easing outside of the cylinder and provided with longitudinally-extending plates So on their outer sides, of the rotary signal-lantern within the cylinder and an operating mechanism in the bottom casing, substantially as set forth.

3. In a railway signal, the combination of 85 the casing B, the glass cylinder C, the cap D, the wheel E, and hollow metallic eylinder F, provided with the windows f, the sector wheel G, carrying the armature j, the retractile spring k, and the electro-magnet H, substantially as 90

described.

## CHRISTIAN H. PETERS.

Witnesses:

WILL J. HACKER, ED MAYER.