

(No Model.)

C. R. COLLINS.
RAILROAD SIGNAL.

No. 270,205.

Patented Jan. 9, 1883.

Fig. 1.

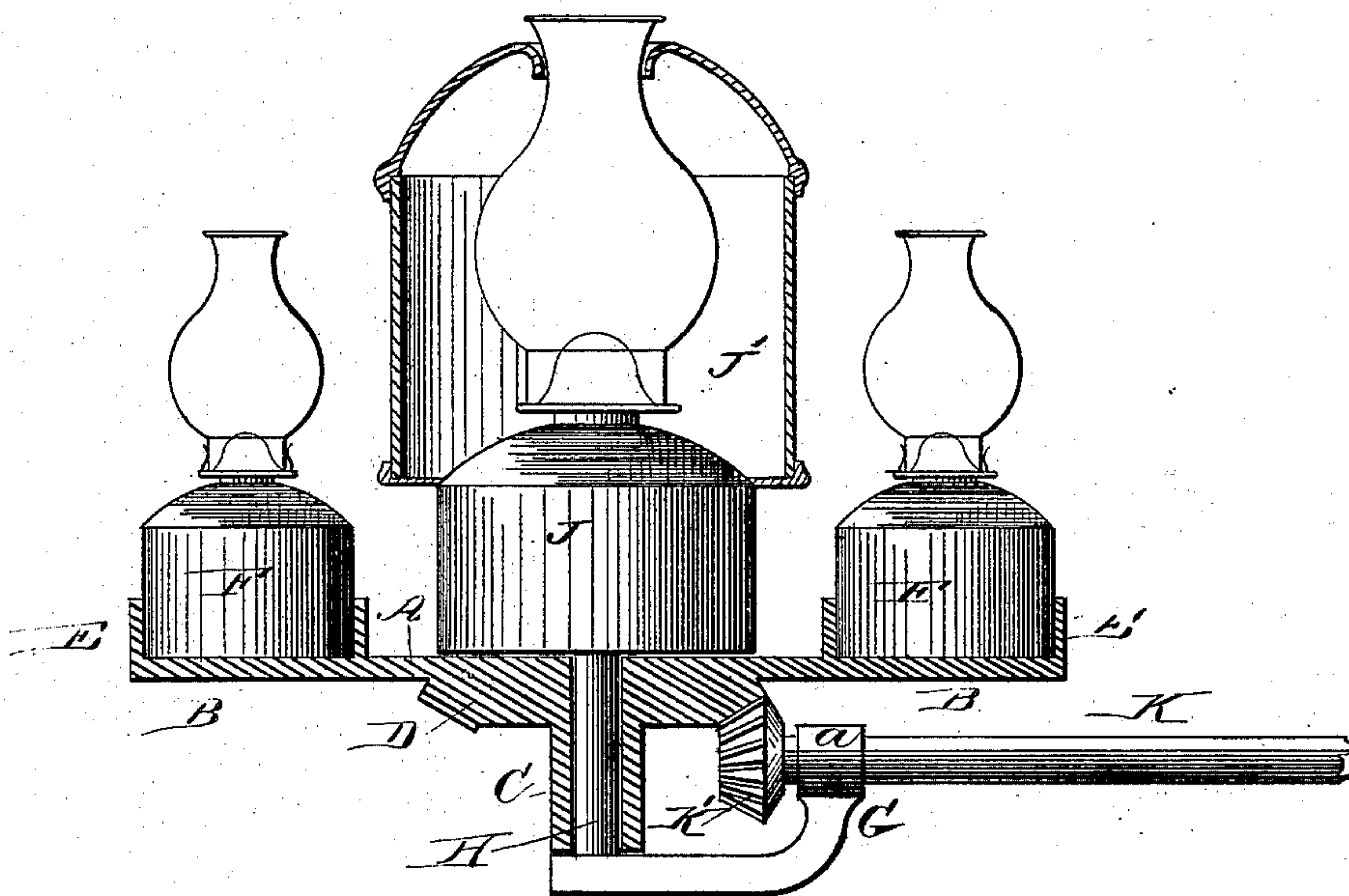
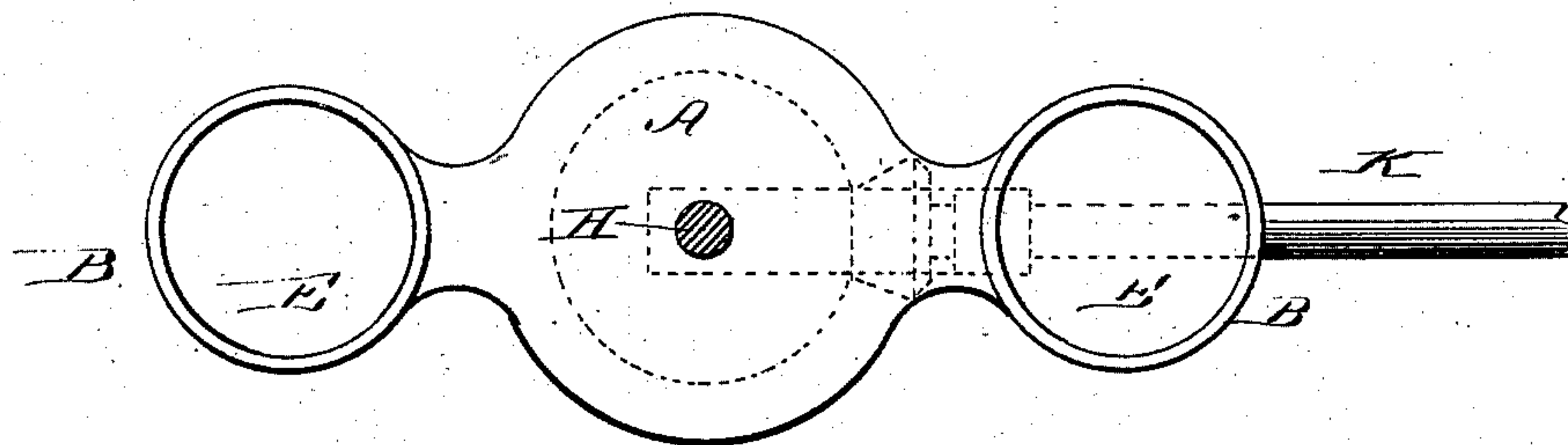


Fig. 2.



Witnesses:

W. B. McArthur
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Inventor:

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Per

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UNITED STATES PATENT OFFICE.

CHARLES R. COLLINS, OF LA FAYETTE, INDIANA, ASSIGNOR OF ONE-THIRD
TO JOHN SCHRACK, OF SAME PLACE.

RAILROAD-SIGNAL.

SPECIFICATION forming part of Letters Patent No. 270,205, dated January 9, 1883.

Application filed May 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES R. COLLINS, of La Fayette, in the county of Tippecanoe and State of Indiana, have invented certain
5 new and useful Improvements in Railroad-Signals; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference
10 marked thereon, which form part of this specification, in which—

Figure 1 is a vertical longitudinal section through my improved revolving night-signal, showing means for revolving the same. Fig.
15 2 is a top view of Fig. 1 with the lamps removed.

Similar letters of reference indicate corresponding parts in both figures.

This invention is intended to provide a safe
20 and reliable night-signal for use on railroad freight-trains, (and in other places,) which will be visible at safe distances to the employes of following trains, conveying reliable information as to direction and speed of trains ahead.
25 It will also inform the employes of a train carrying the light when breakage occurs and the speed of the detached section is reduced or reversed on an upgrade, as will be fully understood from the annexed drawings and the following description.

The letter A designates a base-plate from which radiate arms B B. The center of the base-plate has a tubular extension or hub, C, and a beveled spur-wheel, D, rigid with it.
35 The arms B B have cups E E at their extremities adapted to receive and hold in place lamps F F.

G designates a base-frame from which rises a standard or shaft, H, which passes through
40 the center of the table or base-plate A and the hub C thereof, and bears on its upper end a lamp, J. The frame G is constructed with a bearing, a, for a shaft, K which has keyed on it a beveled pinion, K', which engages with
45 the beveled spur-wheel D. The shaft K receives rotation from the motive power derived from the locomotive, or from the truck-wheels of a car or passenger-coach while in motion, by means of gearing or the equivalent thereof.

The lamp J is surrounded by a shade, J', 50 made of white glass, or of such transparent material (or colored glass) as may be found most convenient and serviceable for the purpose.

The lamps F F may be provided with shades 55 of a red or any other color which may be deemed most efficient. The colored lights F F will revolve around the central light, always turning in an established direction as long as the car is moving ahead, and reversing when
60 the car is backing, or at a standstill when the car comes to a stop.

In practice I place at either end of the look-out, or whatever place the revolving lights are placed, lights of different colors, which must
65 be placed in such positions as to be perfectly distinct from the revolving lights. Now if, say, I have for stationary lights bright green in one end and red in the other, when a person on a following train sees the green light
70 and the red lights revolving from left to right he knows that the train is going ahead. When he sees the red revolving lights revolving from right to left he knows that the train is moving backward. Of course when the train is at a
75 standstill he knows that the lights will not be in motion. The lights F F are intended to be of different colors from the central light.

Having described my invention, I claim—

1. The combination, with the revolving base 80 and its arms carrying lamps, of the intermediate stationary lamp and means for revolving the said base-plate, substantially as described.

2. A signal consisting of a base, revolving radial arms, a central fixed post, a stationary 85 frame, a bevel-wheel on the said base, a shaft, K, and a pinion which engages with the said wheel, and a fixed light and revolving lights, substantially as described.

In testimony that I claim the foregoing as 90 my own I affix my signature in presence of two witnesses.

CHARLES R. COLLINS.

Witnesses:

ALEX. TILLMAN,
MARTIN MONCK.