

J. CULLEN.

Railroad Switch-Signals.

No. 139,046.

Patented May 20, 1873.

Fig. 1.

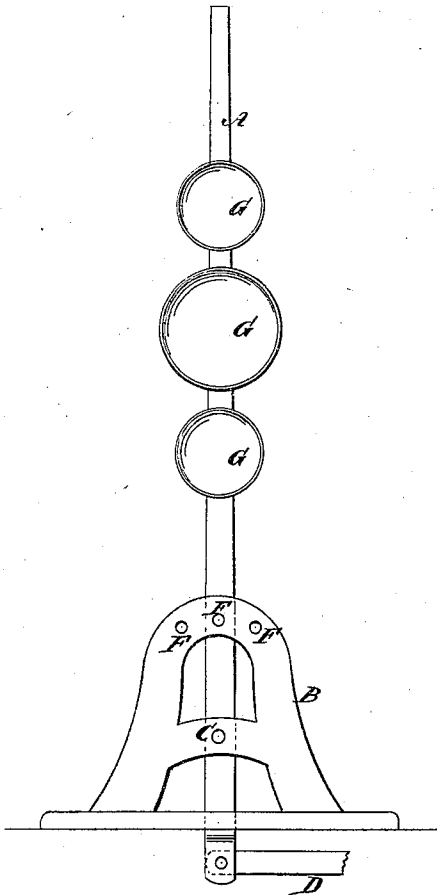
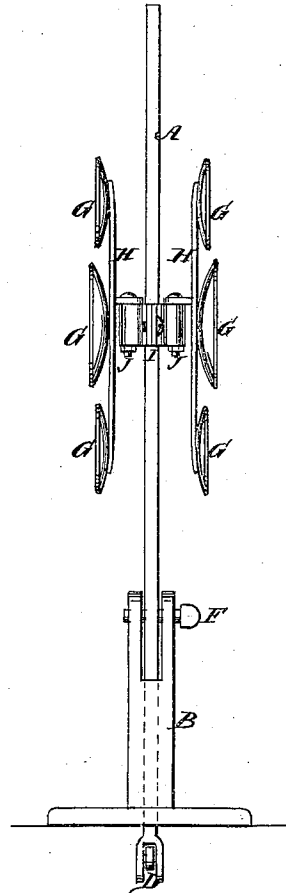


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN CULLEN, OF OXFORD, MISSISSIPPI.

IMPROVEMENT IN RAILROAD-SWITCH SIGNALS.

Specification forming part of Letters Patent No. **139,046**, dated May 20, 1873; application filed February 21, 1873.

To all whom it may concern:

Be it known that I, JOHN CULLEN, of Oxford, in the county of Lafayette and State of Mississippi, have invented a new and useful Improvement in Railroad-Switch Signals, of which the following is a specification:

The object of this invention is to improve the signals of railroad-switches so as to insure greater safety in running the trains; and it consists in connecting with the signal-lever two or more reflectors by which the head-light of an approaching locomotive will be reflected and the position of the signal indicated to the engineer.

In the accompanying drawing, Figure 1 is a face view of my invention. Fig. 2 is an edge view of the same.

Similar letters of reference indicate corresponding parts.

A is the signal-lever. B is the lever stand. C is the fulcrum of the lever. The signal-lever is operated by means of the bar D in the usual manner, and fastened in position, either vertical or inclined, by means of the pin E in the holes F. G represents reflectors attached to the signal-lever A by means of a clamp or otherwise.

In this example of my invention I employ three reflectors to form a line, but they may be of any number above one, and also of any convenient size. These reflectors may be made of any suitable material, and in any suitable form. The reflectors are attached to the bar

H, which is attached to the clamp I. The latter is secured to the lever by means of bolts or screws, or in any suitable manner.

The bar H is connected to the clamp by a hinge, J, which allows the reflectors to be adjusted so as to reflect the rays from the head-light of an approaching locomotive. The engineer will see his light reflected from three points which stand in line, and which will indicate with unerring certainty the position of the signal-lever, whether it be perpendicular or inclined.

To warn the engineer of danger ahead, a reflector may be placed on the rear car of a train ahead, which it is believed would be an improvement upon the signal-lantern now in use.

The reflector above described may be colored so as to reflect white, red, blue, or other color.

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

1. The reflectors G, two or more, in combination with the lever A, as and for the purpose specified.

2. In combination with the reflectors G, the bar H, hinge J, and clamp I, or their equivalents, as and for the purposes described.

JOHN CULLEN.

Witnesses:

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