

(No Model.)

A. HARRIS & G. M. CLARK.

LOCOMOTIVE HEAD LIGHT.

No. 270,795.

Patented Jan. 16, 1883.

Fig. 2.

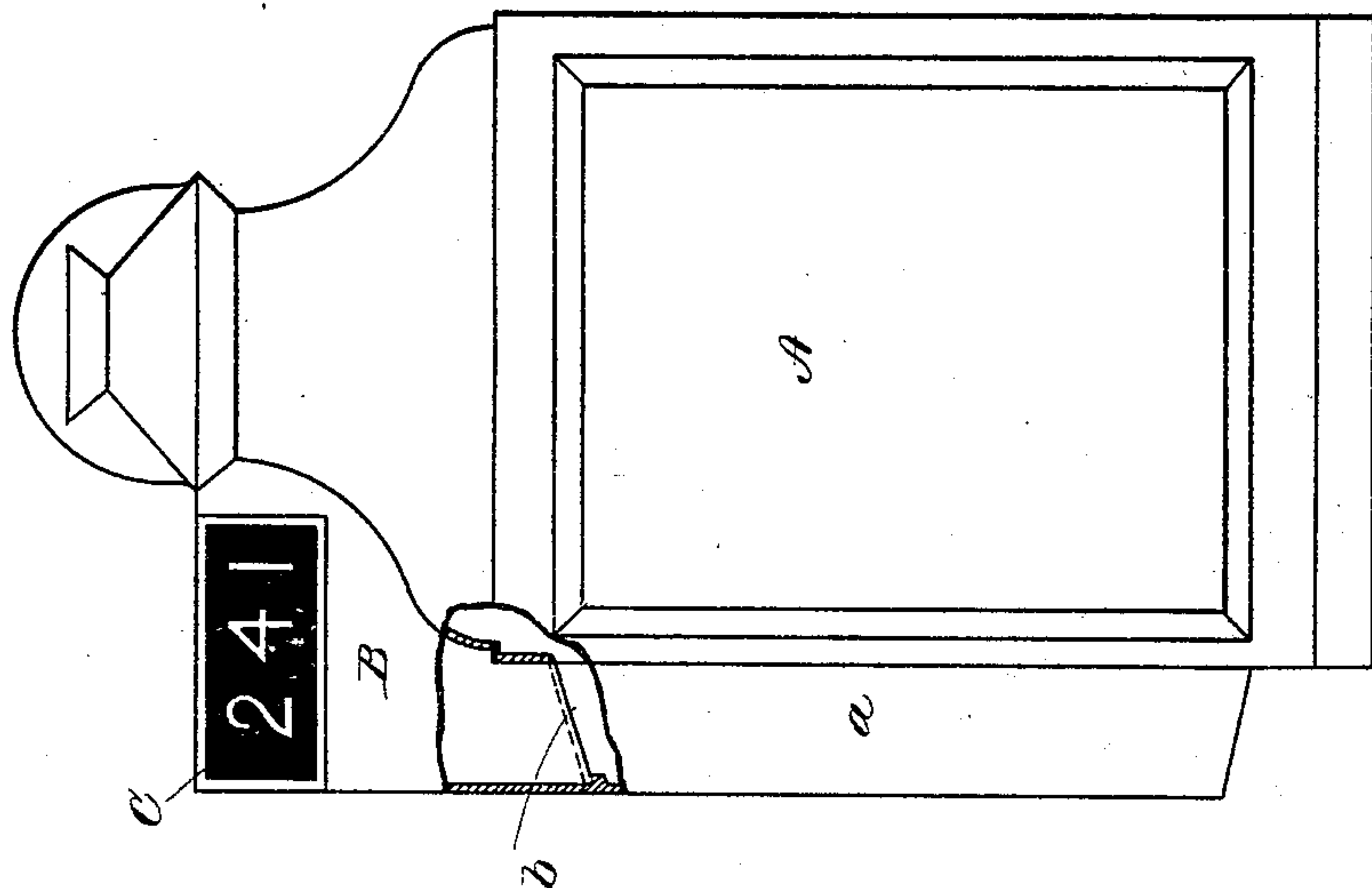
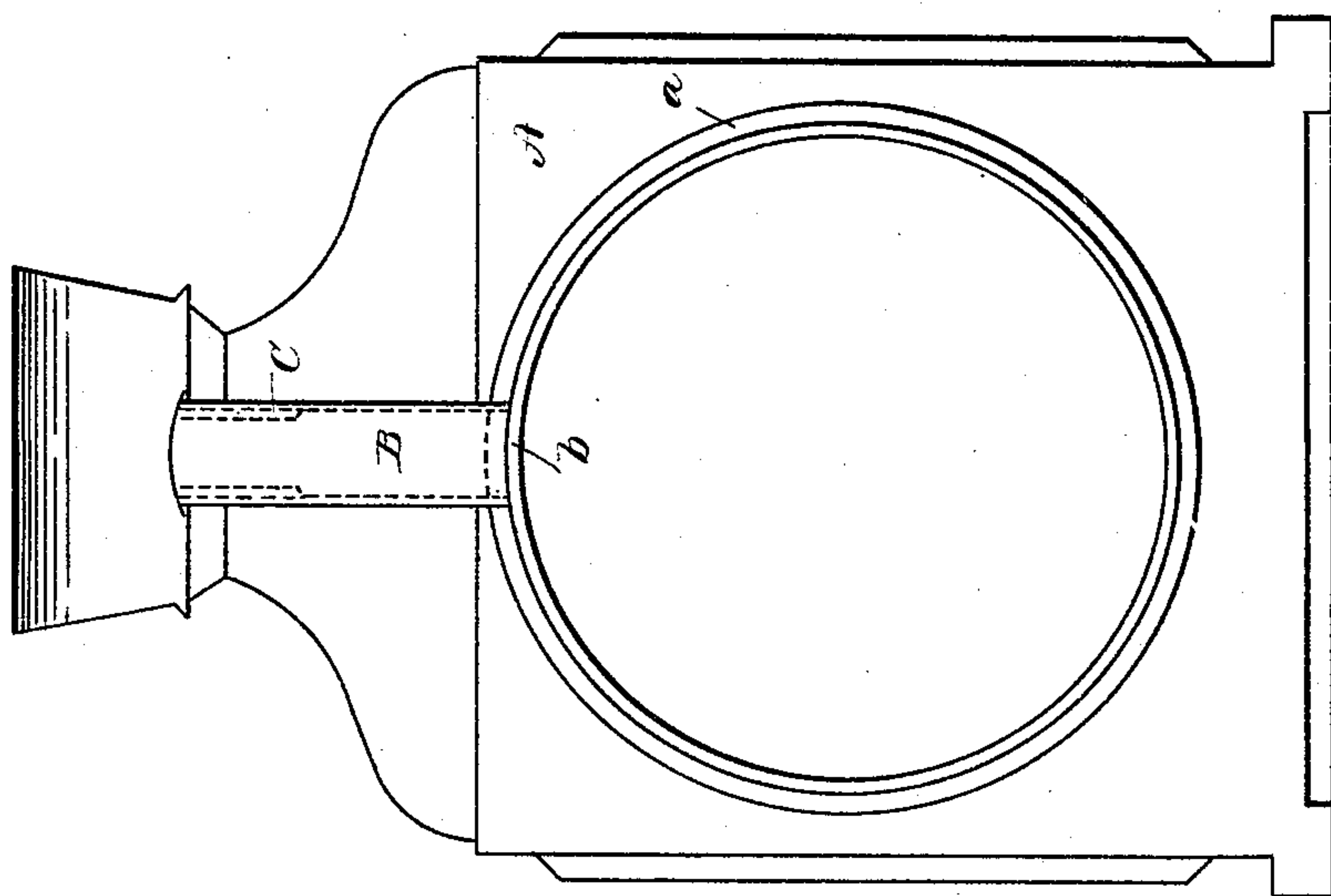


Fig. 1.



Witnesses:

*W. T. Cole*  
*E. L. White*

Inventors,

*Arthur Harris*  
*George M. Clark,*  
*by W. T. Howard, atty.*

# UNITED STATES PATENT OFFICE.

ARTHUR HARRIS AND GEORGE M. CLARK, OF CHICAGO, ILLINOIS, ASSIGNORS  
TO J. MCGREGOR ADAMS, OF SAME PLACE.

## LOCOMOTIVE HEAD-LIGHT.

SPECIFICATION forming part of Letters Patent No. 270,795, dated January 16, 1883.

Application filed November 28, 1882. (No model.)

*To all whom it may concern:*

Be it known that we, ARTHUR HARRIS and GEORGE M. CLARK, both of Chicago, in the county of Cook and State of Illinois, have invented certain Improvements in Locomotive Head-Lights, of which the following is a specification.

This invention relates to means for displaying signals on locomotive head-lights; and, briefly considered, it consists in illuminating a space or chamber fixed above the rim, the latter being cut where the base of the chamber intersects and unites with it, the said chamber having inserted in its sides transparent signal-plates bearing a number or other mark.

In the accompanying drawings, Figure 1 is a front view of our improved head-light. Fig. 2 is a side view of the same, partly in section.

Similar letters of reference indicate similar parts in both figures.

A is the outer case of the head-light or lantern, and *a* its rim. The top of the rim is cut away at *b*, and at the opening thus made is attached a box, B, in each side of which, at its upper portion, is inserted a glass plate, C, bearing a number or signal. It will be understood that the box is closed at all parts except at its base.

If desired, reflectors may be placed on the walls, within the box B, to enhance the illuminative effect. The inner area of the rim *a* being brilliantly illuminated by the lamp and main reflector, sufficient light will reach all the interior parts of the box B and be shown through the transparent plates C.

The signal-glasses may be made adjustable for the interchange of colors.

This invention may be added to head-lights now in ordinary use.

We disclaim the invention described in Patent No. 225,299, granted March 9, 1880, to Michael Nicholson, and also that in Patent No. 209,405, granted October 29, 1878, to W. Kelley, reissued February 18, 1879, under No. 8,591, which patents cover a rim cut for the passage of light to signal-glasses. Our invention is to be distinguished from constructions wherein the rim is cut in two places and a box bearing a glass is applied to each opening so made in the rim, our construction allowing a signal to be exhibited at each side of the train by light thrown directly through a single opening in the rim.

We claim as our invention—

Combined with a locomotive head-light, a box having its lower portion open and united with the perforated top of the rim, said box having inserted in its sides transparent plates bearing a signal number or mark, substantially as set forth.

In testimony whereof we have hereunto set our hands and seals this 22d day of November, 1882.

ARTHUR HARRIS. [L. S.]  
GEO. M. CLARK. [L. S.]

Witnesses:

LAURENCE BROWN,  
OSBORNE SAMPSON.