

(No Model.)

E. S. JENNEY.

HEAD LIGHT.

No. 270,804.

Patented Jan. 16, 1883.

Fig. 1.

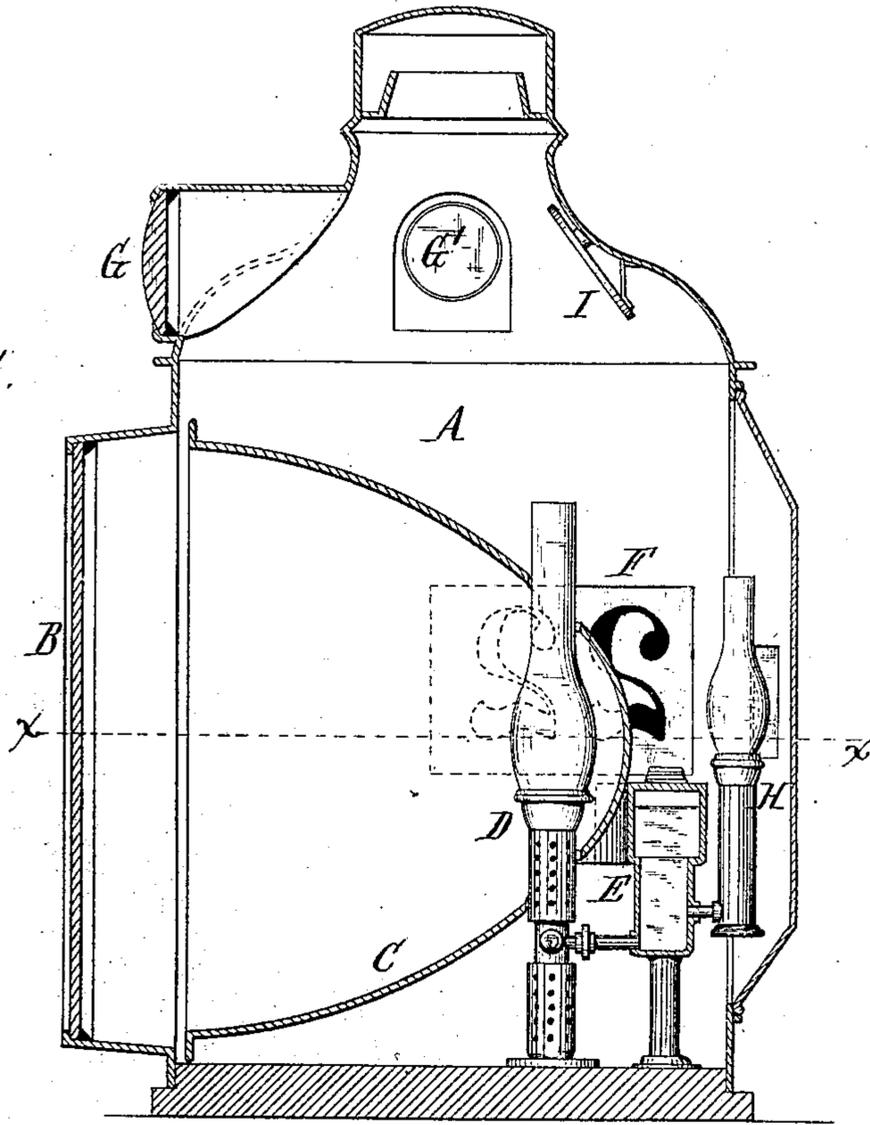
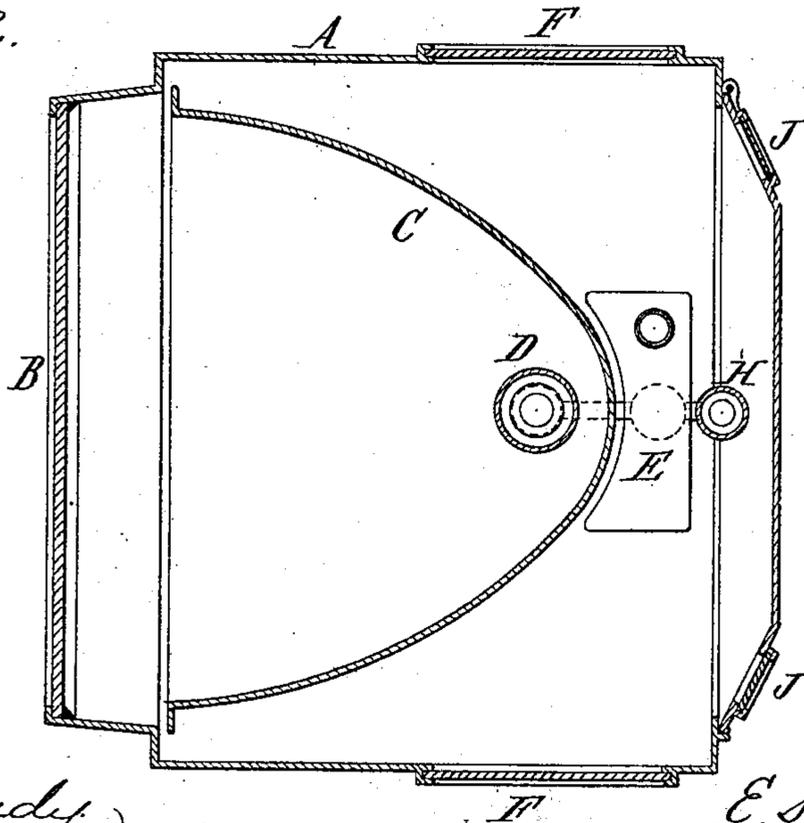


Fig. 2.



*Edw. J. Brady*  
*Theo. L. Popp* } Witnesses.

Inventor:  
*E. S. Jenney*  
By *Michelin & Bonnet*  
Attorneys.

# UNITED STATES PATENT OFFICE.

EDWIN S. JENNEY, OF SYRACUSE, NEW YORK.

## HEAD-LIGHT.

SPECIFICATION forming part of Letters Patent No. 270,804, dated January 16, 1883.

Application filed October 24, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN S. JENNEY, of the city of Syracuse, in the county of Onondaga and State of New York, have invented  
5 new and useful Improvements in Head-Lights, of which the following is a specification.

This invention relates to an improvement in that class of head-lights which are provided with transparent signal plates or lenses in the  
10 sides or top of the head-light case; and the object of the invention is to illuminate such signal-plates in a simple and efficient manner, so that the signals can be readily observed at night.

15 My invention consists principally in providing the head-light with an auxiliary lamp outside of the reflector, whereby the interior of the head-light and the transparent signals or lenses arranged in the side or top of the head-  
20 light case are illuminated, as will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical longitudinal section of a head-light  
25 provided with my improvement. Fig. 2 is a horizontal section in line *x x*, Fig. 1.

Like letters of reference refer to like parts in both figures.

30 A represents the head-light case, B the glass arranged in the front plate thereof, C the main reflector, D the lamp arranged in the reflector, and E the oil-reservoir, all constructed in any well-known and suitable manner.

35 F F represent transparent signal-plates arranged in the side walls of the head-light case, and G G' represent colored signal-lenses arranged in the front and sides of the top of the head-light case in any well-known manner.

40 H represents an auxiliary lamp arranged in the head-light case outside of the reflector C, so as to illuminate the interior of the head-light case, and the signal-plates F F and the lenses G G', arranged in the sides and top thereof. The auxiliary lamp H is preferably  
45 connected with the oil-reservoir E of the main lamp, as shown in the drawings. The signal-plates F F in the sides of the head-light case are preferably arranged on a level, or there-

about, with the burner of the auxiliary lamp H, and the rear wall of the head-light case  
50 may be provided with an auxiliary reflector, which deflects the light laterally toward both signal-plates F F.

I is an auxiliary reflector arranged in the top of the head-light case in such manner as  
55 to deflect a portion of the light emitted by the auxiliary lamp H forwardly through the lens G in the front of the top of the head-light case.

J represents transparent plates arranged in the rear wall of the head-light case for the  
60 purpose of enabling the engineer to observe whether the auxiliary lamp H is burning or not. The auxiliary lamp H illuminates the interior of the head-light case outside of the  
65 reflector with considerable intensity, and insures a powerful illumination of the transparent signals or lenses which may be applied to the head-light case, and it avoids the necessity of forming extra openings in the main reflector  
70 for the purpose of illuminating such signals or lenses by direct light from the main lamp.

I claim as my invention—

1. The combination, with a head-light provided with transparent signal plates or lenses,  
75 of an auxiliary lamp arranged in the head-light case outside of the main reflector, and adapted to illuminate said signal plates or lenses, substantially as set forth.

2. The combination, with a head-light, of a  
80 reflector, C, a lamp, D, adapted to illuminate the interior of said reflector, an auxiliary lamp, H, arranged outside of said reflector, and an oil-reservoir, E, connected with both lamps, substantially as set forth.

3. The combination, with a head-light, of an  
85 auxiliary lamp, H, arranged outside of the reflector and adapted to illuminate the signal plates or lenses applied to the sides or top of the head-light case, and one or more trans-  
90 parent plates, J, arranged in the rear wall of the head-light case, substantially as set forth.

EDWIN S. JENNEY.

Witnesses:

JAMES B. BROOKS,  
GEO. MCGOWAN.