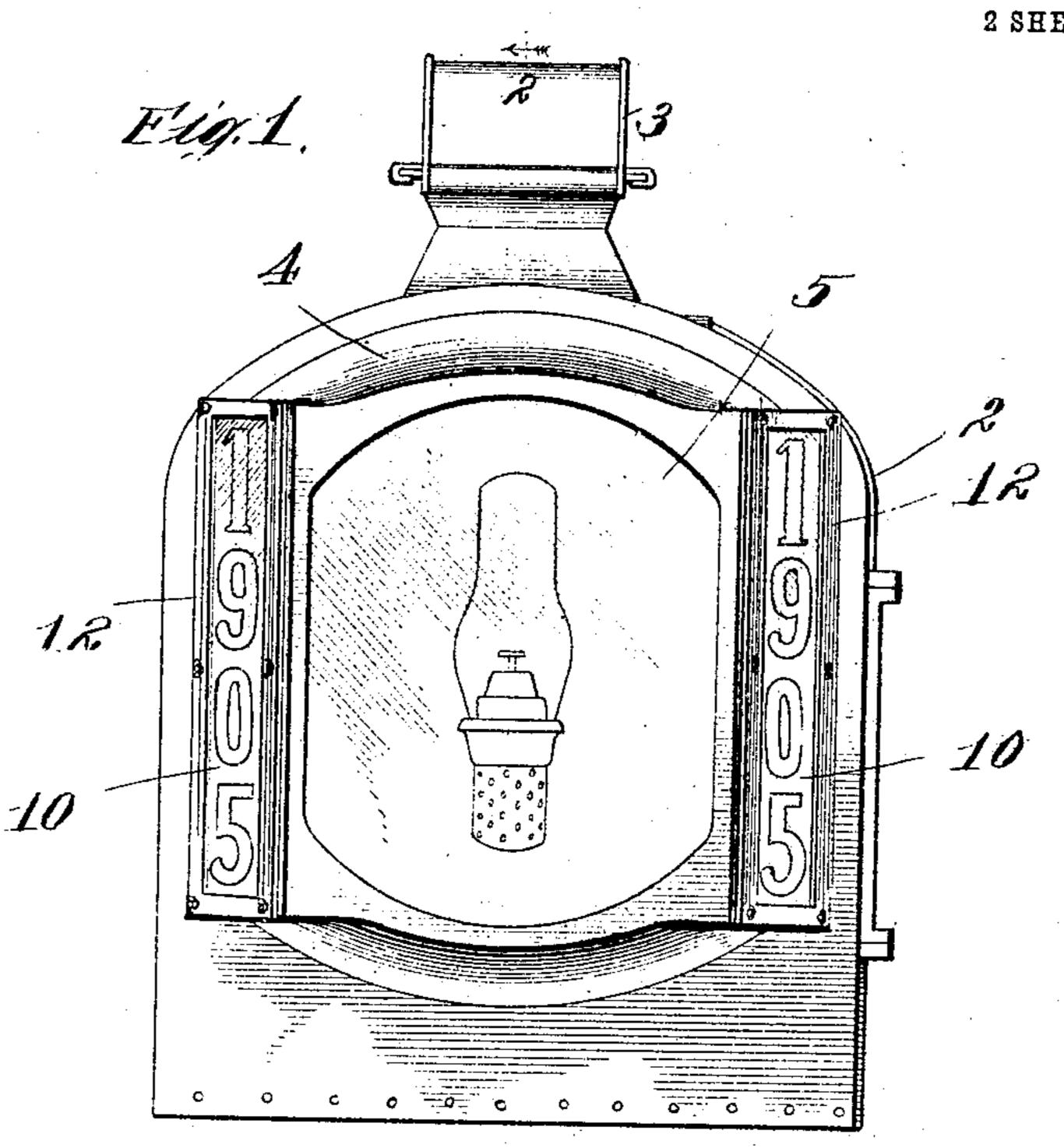
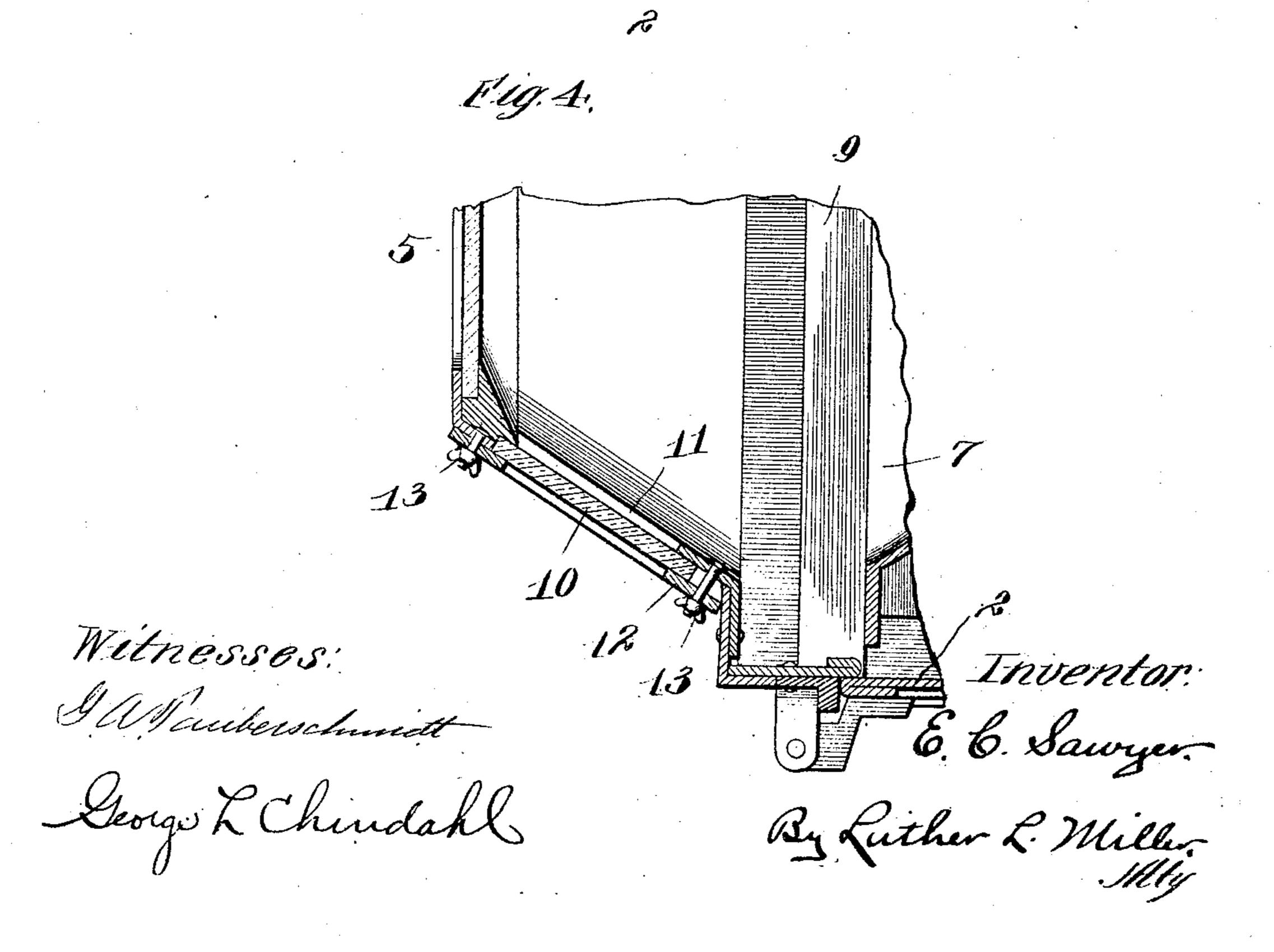
E. C. SAWYER.

LOCOMOTIVE HEADLIGHT.

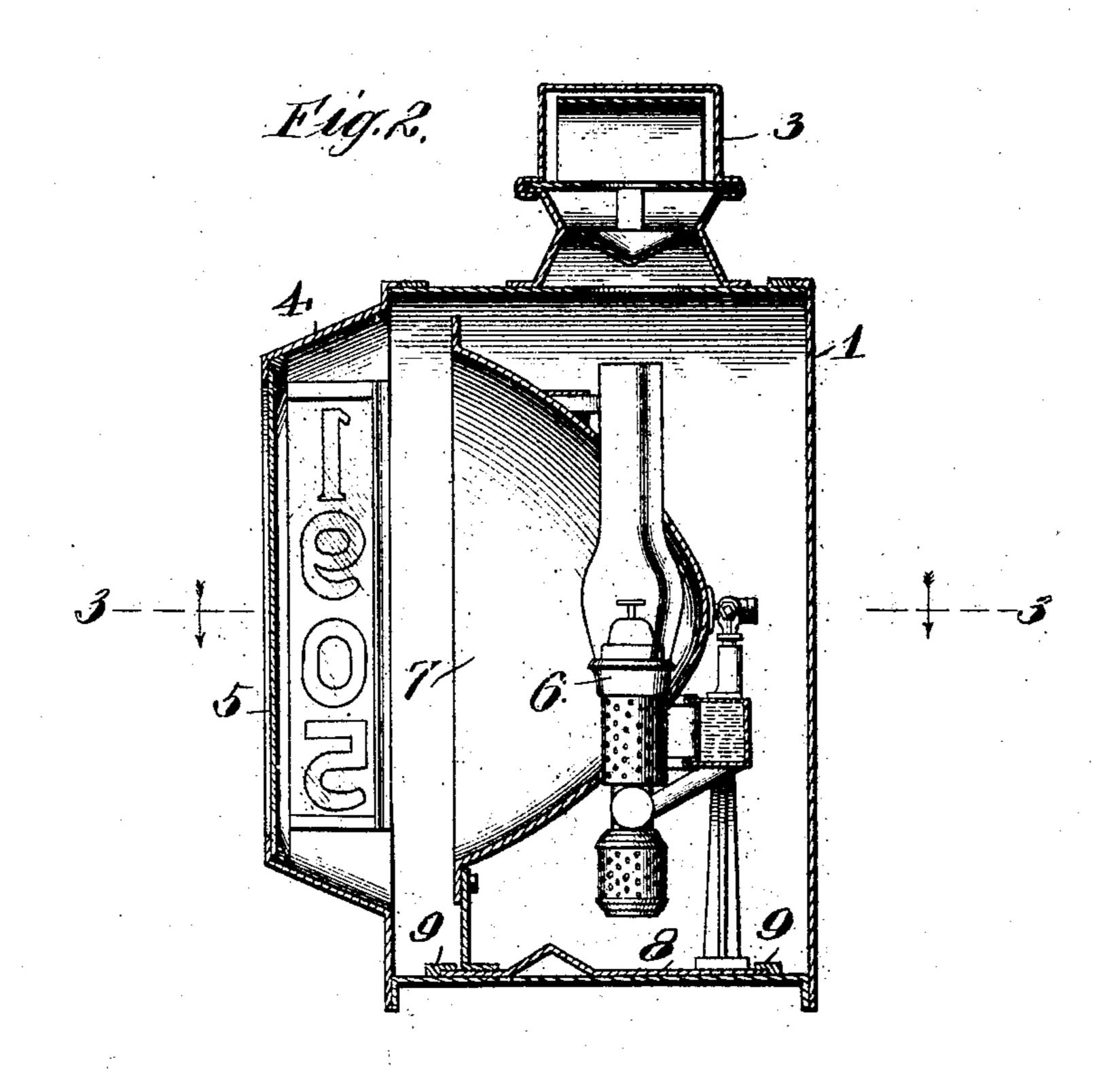
APPLICATION FILED JUNE 21, 1905.

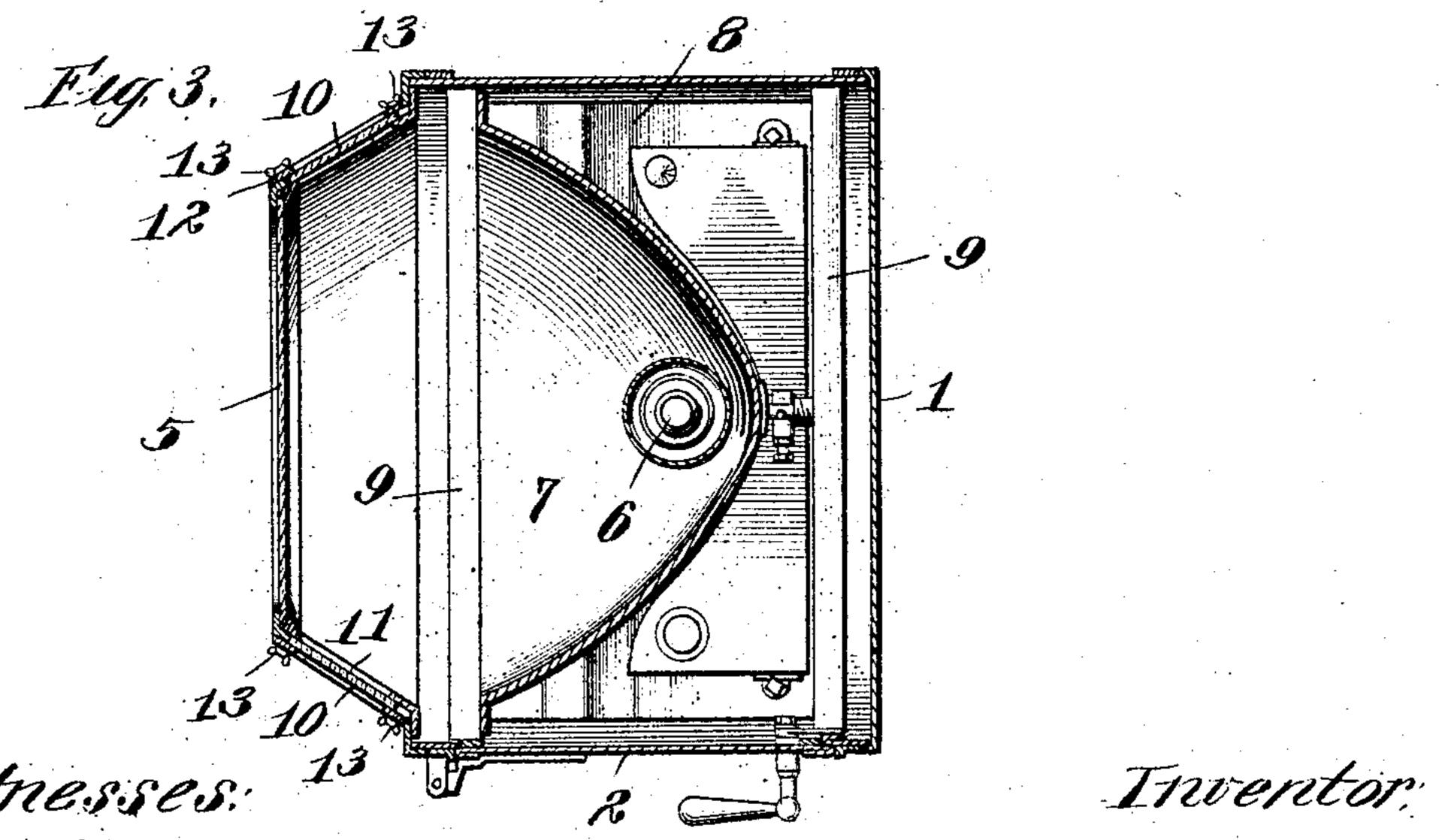
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E. C. SAWYER. LOCOMOTIVE HEADLIGHT. APPLICATION FILED JUNE 21, 1905.





Mitnesses:
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UNITED STATES PATENT OFFICE.

EDWARD C. SAWYER, OF CHICAGO, ILLINOIS.

LOCOMOTIVE-HEADLIGHT.

No. 827,943.

Specification of Letters Patent. Patented Aug. 7, 1906.

Application filed June 21, 1905. Serial No. 266,350.

To all whom it may concern:

cago, in the county of Cook and State of Illi-5 nois, have invented certain new and useful Improvements in Locomotive-Headlights, of

which the following is a specification.

This invention relates to the headlights for locomotives; and its object is the production ro of a headlight having means for displaying the number of the locomotive in such a manner that said number may be read from any point beside or in front of the engine. This object I accomplish without impairing the 15 efficiency of the reflector and with but a slight loss of light by arranging at each side of the reflector and near the front end thereof a glass plate bearing the locomotive-number, the numerals in the embodiment hereinafter 20 described being alined vertically instead of horizontally, as usual, in order to economize space. The said glass plates are arranged at an angle of about forty-five degrees with the length of the headlight and engine, whereby 25 the numbers displayed on said plates may be read from a point in front of the engine as well as from a point opposite the side thereof.

In the accompanying drawings, Figure 1 is a front elevation of a locomotive-headlight 30 embodying the features of my invention. Fig. 2 is a vertical central section through said headlight, taken on dotted line 2 2 of Fig. 1. Fig. 3 is a horizontal section through the headlight on the plane of dotted line 3 3 of 35 Fig. 2. Fig. 4 is a detail sectional view, on an enlarged scale, illustrating the construc-

tion of the side-number frames.

In the embodiment shown in said drawings the headlight-case 1 is provided with a 40 door 2 at one side, a ventilator 3, and the forward extension or goggle 4. The forward side of the goggle is closed by the glass plate 5, held in place by any suitable means.

The lighting apparatus may be of any usual 45 or preferred form, and, as shown herein, comprises an oil-lamp 6 and a parabolic reflector | placing the side-number plates opposite the 7, both supported in proper relation to each sides of the reflector and cutting away a porother upon a base 8. The base 8 is held in tion of said reflector, as has heretofore been

position within the headlight-case by means Be it known that I, EDWARD C. SAWYER, a | of flanged rails 9, fixed to the floor of the case 50 citizen of the United States, residing at Chi- and adapted to overlie two opposite side edges of said base.

To provide means for reading the number of the locomotive from either side of the engine, I place at each side of the headlight- 55 case at a point forward of the front end of the reflector 7 a glass plate 10, bearing such number. In the embodiment herein shown these plates are placed one in each side of the goggle; but it will be apparent that where the 60 forward side of the headlight-case is of a form different from that illustrated in the drawings said plates might be placed somewhat nearer together or farther apart or somewhat nearer to or farther from the reflector than 65

as herein shown. The means for supporting the glass plates 10 may be of any preferred construction. In the present instance said plates are shown as supported within elongated vertically-ex- 7° tending openings 11, formed in each side of the goggle 4, over which openings said glass plates are arranged to be secured by means of a retaining-frame 12, removably secured to

the goggle by means of screws 13.

In use most of the light issuing from the lamp is projected by the reflector 7 through the glass plate 5 in a beam along the track. A portion, however, of the light passes through the side glass plates 10, illuminating 80 the numbers painted thereon. Being disposed at an angle of about forty-five degrees with reference to the length of the locomotive, the numbers may be read from a point beside the track in front of the engine or from 85 a point directly opposite the side of the headlight. By disposing the side plates vertically they can be made of sufficient size to display three or four numerals of standard height and width. Being arranged somewhat in front 90 of the forward end of the reflector, the numbers are illuminated with a trifling loss of light compared with the loss occasioned by

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proposed. When it is desired to replace a side glass for any reason, the glass may be removed upon taking off the retaining-frame 12.

I claim as my invention— A headlight-case comprising a substantially circular goggle having two opposite flattened side walls, each of said walls extending at an angle of substantially forty-

five degrees with the length of the headlightro case, each of said side walls having an elon-

gated vertically-extending opening therein, means of substantially the form of said openings for displaying in each of said openings a locomotive-number consisting of verticallyalined numerals, and means for securing said 15 number-displaying means in said openings.

EDWARD C. SAWYER.

Witnesses:

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