

(No Model.)

P. B. VIELE.
LOCOMOTIVE HEAD LIGHT.

No. 335,979.

Patented Feb. 9, 1886.

Fig. 1.

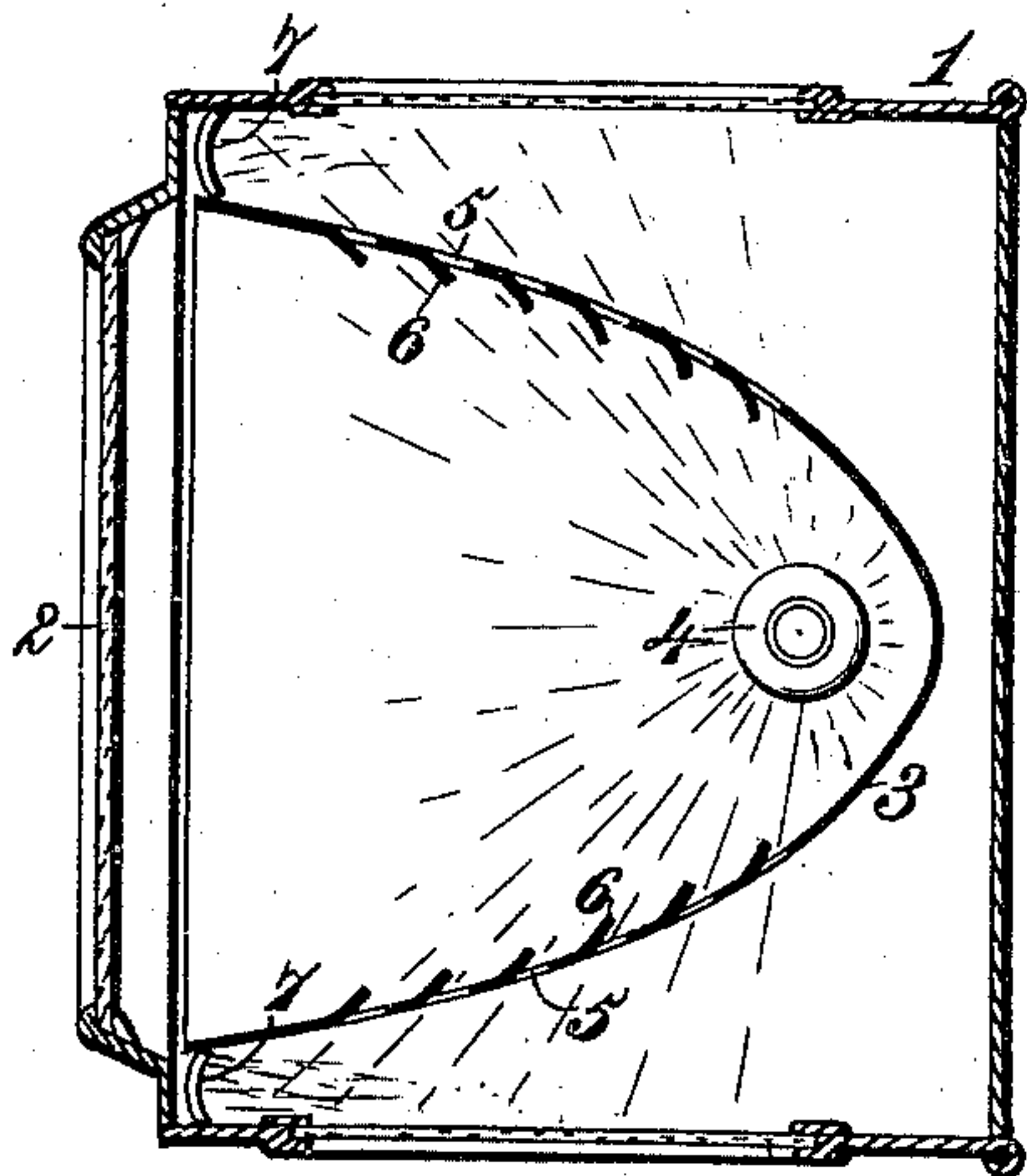


Fig. 2.

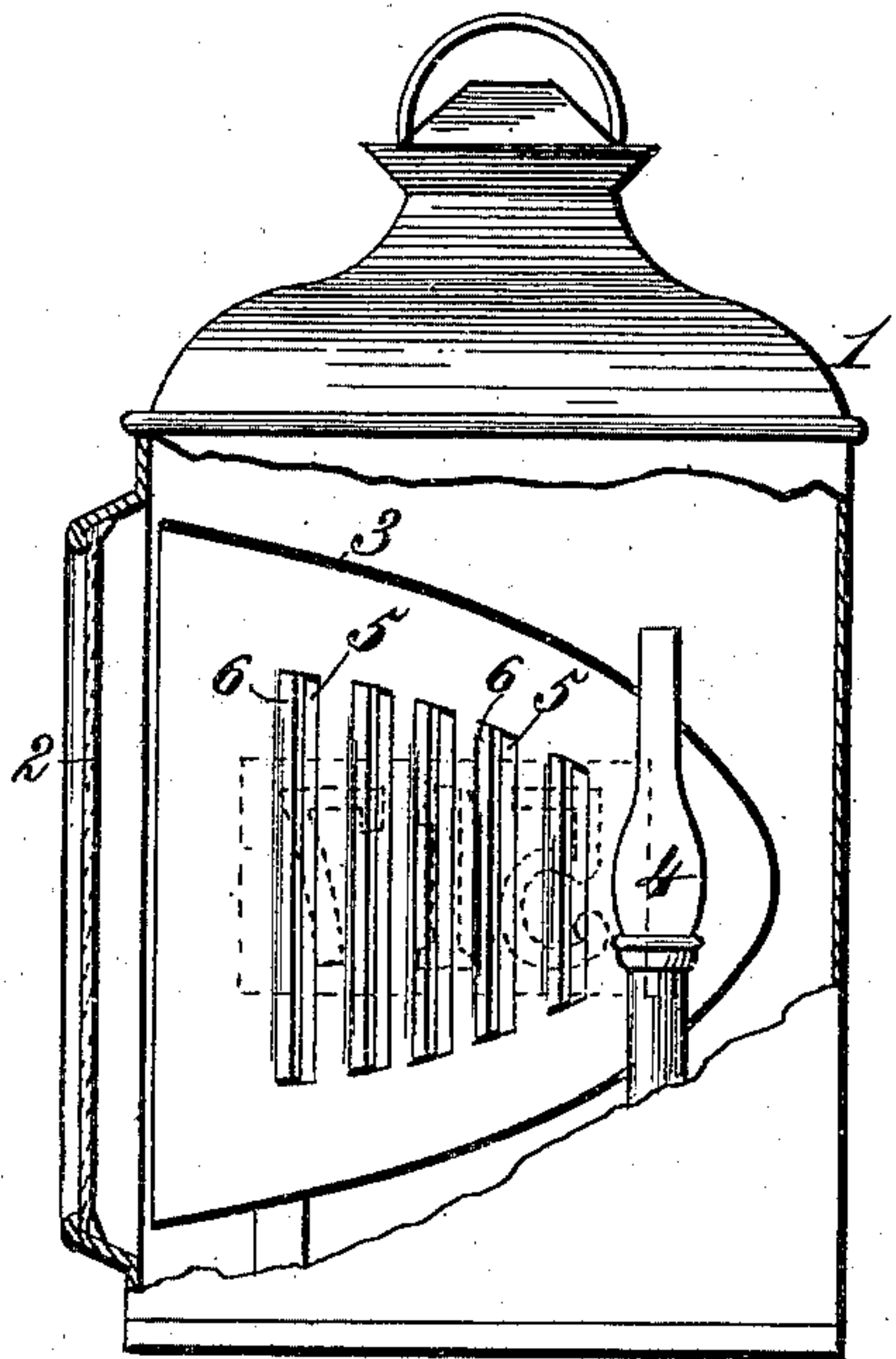
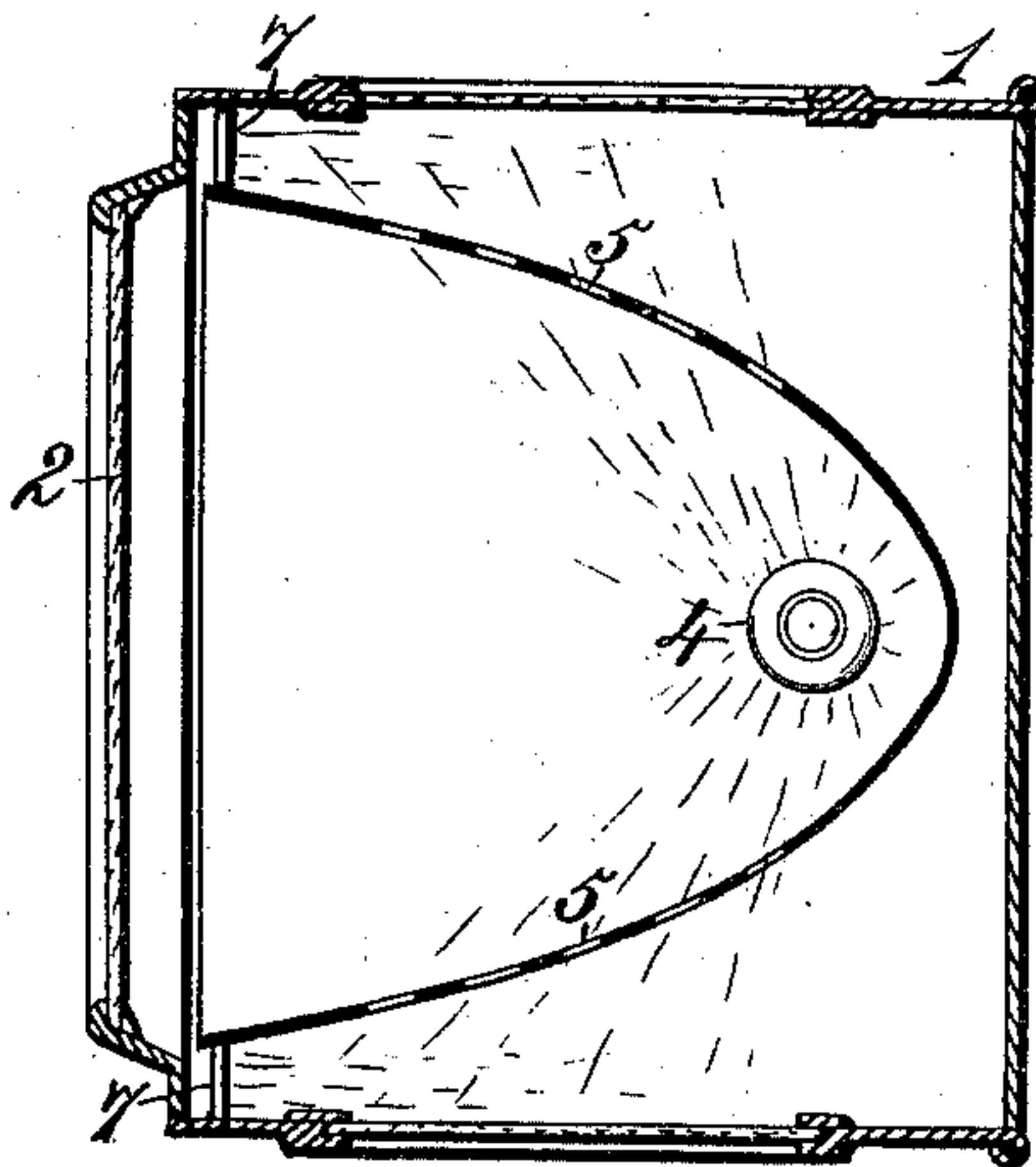


Fig. 3.



Witnesses.

Robert Errett,

J. A. Rutherford

Inventor.

Platt B. Vile.

By

James L. Norris,

Atty.

UNITED STATES PATENT OFFICE.

PLATT B. VIELE, OF ROCHESTER, NEW YORK.

LOCOMOTIVE HEAD-LIGHT.

SPECIFICATION forming part of Letters Patent No. 335,979, dated February 9, 1886.

Application filed August 25, 1885. Serial No. 175,316. (No model.)

To all whom it may concern:

Be it known that I, PLATT B. VIELE, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented new and useful Improvements in Locomotive Head-Lights, of which the following is a specification.

This invention relates to an improved reflector for locomotive head-lights; and it consists of a concaved or parabolic reflector provided on each side with a series of vertical slits or narrow slotted openings for the passage of light to the numbers or signals displayed on the sides of the head-light case.

The invention also consists in the combination, with a main reflector having vertically-slotted sides, of supplemental reflectors placed on each side of said reflector, between it and the sides of the head-light case, for the purpose of throwing any surplus light toward the numbers or signals on the sides of the casing.

In the annexed drawings, illustrating the invention, Figure 1 is a horizontal section of a locomotive head-light made according to my invention. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a modification.

Referring to these drawings, the numeral 1 designates a rectangular head-light casing having face-glasses 2, and provided on each side with the locomotive or train number, or any desired signal, or with both numbers and signals, arranged in any convenient or well-known manner. Within this casing is placed a parabolic reflector, 3, or other suitable concaved reflector of approved style, for throwing light forward upon the track from a lamp, 4, arranged within the rear end of the reflector, as usual.

In order to illuminate the numbers or signals in the sides of the head-light case a series of vertical slots or elongated slots, 5, are formed in each side of the reflector 3, for the passage of rays of light toward and against said numbers or signals. These vertical openings may be made of gradually-increasing length from rear to front, thereby conforming to the contour of the reflector, and can be made either by removing narrow strips from the sides of the reflector, as shown in Fig. 3, or by simply cutting vertical slits with short horizontal slits at each end, whereby the partly-cut portion of the reflector can be turned inward to form

vertical wings 6, as shown in Figs. 1 and 2. The openings 5 thus formed in the sides of the reflector afford passages for a sufficient quantity of light to illuminate the numbers and signals in the sides of the head-light case without materially diminishing the volume of light thrown forward upon the track, especially as the slits or slots 5 do not need to have any great width. The wings 6, when viewed from the front of the head-light, serve to partly cover the openings 5, on the front edges of which they are located, and thus form part of the general reflecting-surface.

If desired, a supplemental reflector, 7, of any suitable form, may be placed on each side of the main reflector 3, between its front end and the sides of the casing 1, the faces of said supplemental reflectors being either straight, concave, or convex, and turned backward, as shown in Figs. 1 and 3, so as to receive any surplus light and throw it toward the numbers or signals. If desired, these supplemental reflectors 7 may be set farther back at any suitable point on the sides of the main reflector, but in advance of the signal or number glasses.

What I claim as my invention is—

1. In a locomotive head-light, the combination, with a casing having side numbers or signals, of a reflector provided on each side with a series of vertical openings for the passage of light to said numbers or signals, substantially as described.

2. In a locomotive head-light, the combination, with a casing having numbers or signals displayed on its sides, of a main reflector provided on each side with a series of vertical slots for the passage of light to said numbers or signals, and supplemental reflectors placed between said reflector and the sides of the casing, and adapted to throw light toward said numbers or signals, substantially as described.

3. In a locomotive head-light, the combination, with the casing 1, having side numbers or signals, of the reflector 3, provided on each side with narrow slotted openings 5, having wings 6, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

PLATT B. VIELE.

Witnesses:

WM. H. FARRAND,
WM. E. CRAIB.