

T. HYATT.

Illuminating Vault-Covers.

No. 145,197.

Patented Dec. 2, 1873.

Fig. 1.

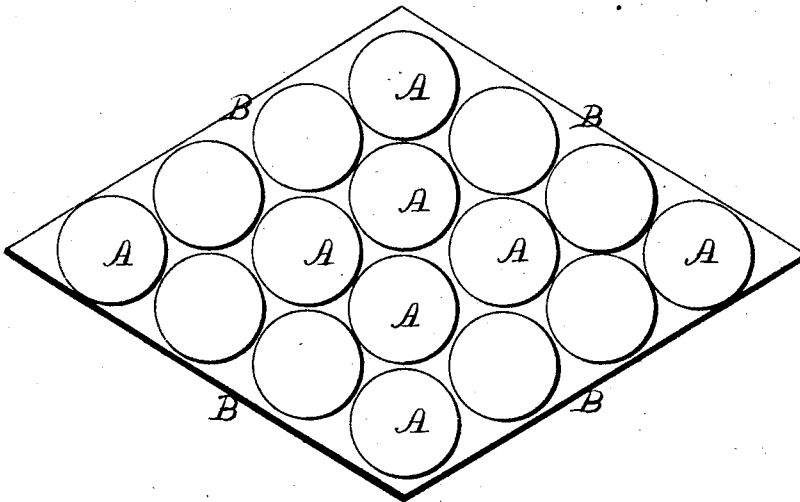
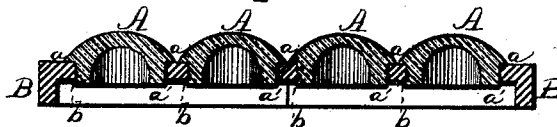


Fig. 2.



WITNESSES:

James E. Hutchinson
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INVENTOR.

Thaddeus Hyatt, by
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UNITED STATES PATENT OFFICE.

THADDEUS HYATT, OF NEW YORK, N. Y., ASSIGNOR TO ELIZABETH A. L.
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IMPROVEMENT IN ILLUMINATING VAULT-COVERS.

Specification forming part of Letters Patent No. **145,197**, dated December 2, 1873; application filed
October 22, 1873.

CASE 2.

To all whom it may concern:

Be it known that I, THADDEUS HYATT, of New York, in the county of New York and in the State of New York, have invented certain new and useful Improvements in Illuminating-Gratings; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a plan view of the upper side of an illuminating-grating containing lenses of my improved construction, and Fig. 2 is a cross-section of the same.

Letters of like name and kind refer to like parts in each of the figures.

The design of my invention is to simplify the construction of illuminating-gratings and lessen their cost; and it consists in a glass lens having an enlarged or button-shaped head and a smaller shank or stem, whereby said lenses may be secured in perforations made in metal sheets or plates without any special seating being required in the metal, substantially as is hereinafter specified.

In the annexed drawing, A represents a glass lens having its upper side made convex, preferably, and enlarged horizontally so as to form a head, *a*, and a shank, *a'*, which latter has a

lesser diameter than the former, and forms a shoulder at its intersection therewith. In the use of this lens an opening, *b*, which corresponds in size and shape to the shank *a'*, is formed in and through the metal grating-plate B, and said shank inserted from above, when the head *a* will rest upon the upper surface of said plate and constitute a bearing for said lens. By use of this lens no tool other than a drill is required for fitting the grating-plate, while in the use of other kinds of lens an especial seat is required, and especial and unusual tools rendered necessary, either in constructing the pattern or in preparing the metal plate for use.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

A glass lens having an enlarged or button-shaped head and a smaller shank or stem, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 26th day of July, 1873.

THADDEUS HYATT.

Witnesses:

AMBROSE MONELL,
CHARLES SPYR.