

T. HYATT.
Illuminating Vault-Covers.

No. 145,187.

Patented Dec. 2, 1873.

Fig. 1.

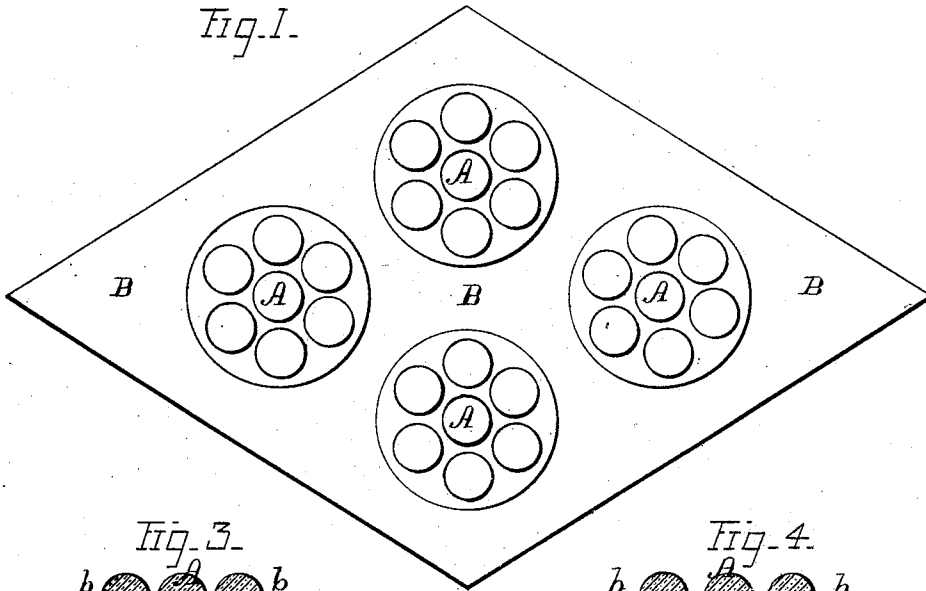


Fig. 3.

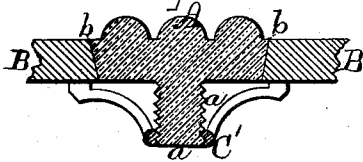


Fig. 4.

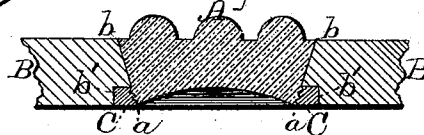
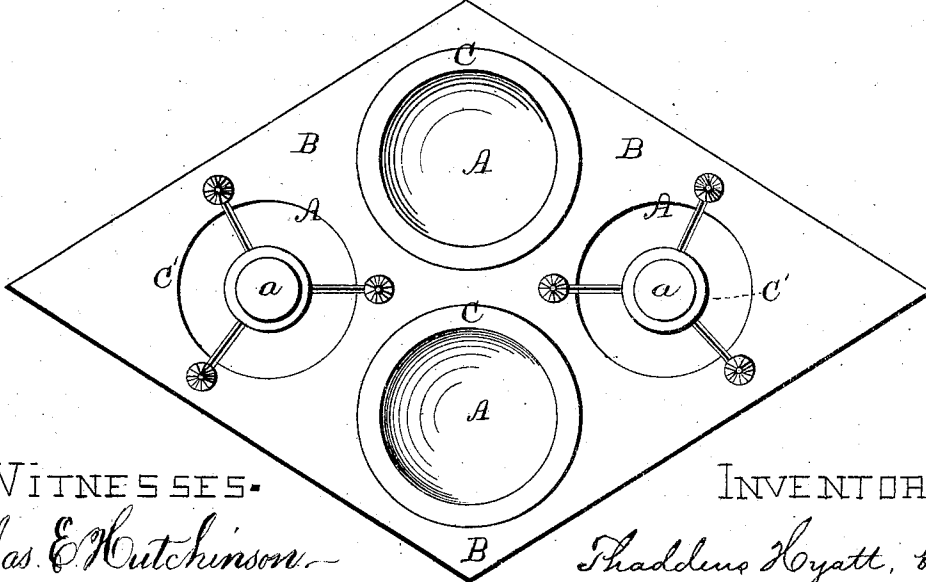


Fig. 2.



WITNESSES.

for E. Hutchinson
John P. Young

INVENTOR.

Thaddeus Hyatt, by
Orindle and Beane, his Attys

UNITED STATES PATENT OFFICE.

THADDEUS HYATT, OF NEW YORK, N. Y., ASSIGNOR TO ELIZABETH A. L. HYATT, OF SAME PLACE.

IMPROVEMENT IN ILLUMINATING VAULT-COVERS.

Specification forming part of Letters Patent No. **145,187**, dated December 2, 1873; application filed October 22, 1873.

CASE 5.

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 pavement-plate containing my improved lens. Fig. 2 is a like view of the lower side of said plate. Fig. 3 is a vertical section of the same through the center of one of the lenses; and Fig. 4 is a like view, in which is shown a modification in the shape of the lower portion of said lens.

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

My invention relates to detachable illuminating-lenses, and is intended to render more easy and speedy their attachment to or removal from a pavement-plate; to which end it consists in an illuminating-lens having tapering sides, provided with a screw-thread, and secured in position by means of a nut applied to or upon its lower threaded end, substantially as and for the purpose hereinafter specified.

In the annexed drawing, A represents a glass lens having downward and inward tapering sides, and provided upon the same, near its lower end, with a screw-thread, *a*. As thus constructed, the lens is placed within a corre-

sponding illuminating-opening, *b*, of a pavement-plate, B, and a nut, C, passed over its lower threaded end, and screwed upward against the lower side of said plate.

It will be readily seen that the principle involved in this invention is capable of many modifications—as, for instance, the threaded portion *a* of the lens may be reduced in the manner shown in Fig. 3, and a spider-shaped nut, C', placed thereon, with its arms spanning the light opening and bearing against the lower side of the plate B, while, if the form of lens shown in Fig. 4, is employed, the nut may be either entirely below the surface of said plate B, or it may be contained within a recess, *b'*, formed in the lower side of the same.

The lenses thus attached are securely held in place, and are easily and quickly placed within or removed from the light-openings.

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

An illuminating-lens having tapering sides, provided with a screw-thread, and secured in position by means of a nut applied to or upon its lower threaded end, 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.