

T. HYATT.

Non-Condensing Illuminating Vault-Covers.

No. 145,205.

Patented Dec. 2, 1873.

Fig. 1.

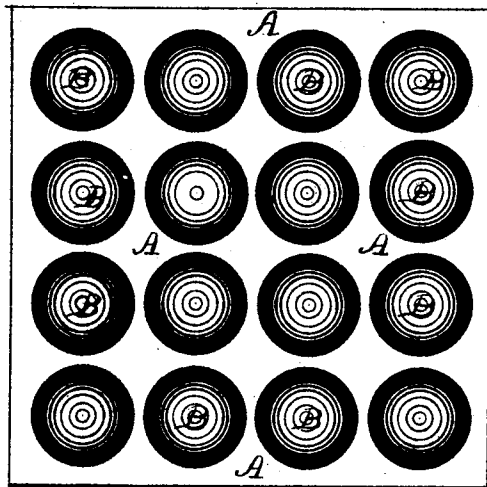
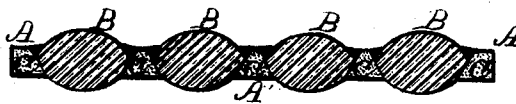


Fig. 2.



WITNESSES:

Jas. C. Hutchinson
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INVENTOR.

Thaddeus Hyatt, by
 Grindle 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 NON-CONDENSING ILLUMINATING VAULT-COVERS.

Specification forming part of Letters Patent No. **145,205**, dated December 2, 1873; application filed October 22, 1873.

CASE 12.

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 Non-Sweating Tiles; 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 tile or plate constructed in accordance with my improved method, and Fig. 2 is a vertical section of the same upon a line passing through the centers of a row of lenses.

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

The object of my invention is to decrease the weight and cost of illuminating-gratings, and to increase their capacity to resist changes of temperature; to which end it consists in an illuminating pavement tile or plate composed of a double shell of sheet metal, having its interior filled with plastic material, substantially as and for the purpose hereinafter specified.

In the annexed drawing, A represents the upper, and A' the lower, side of a sheet-metal casing, which sides are arranged in parallel lines, and have their edges turned upward or downward, and connected together, as shown, so as to leave an inclosed space between their adjacent faces. A series of light-openings are provided for the reception of illuminating-lenses B, which openings may be inclosed at

their edges by metal rings; or, if desired, may be open at such points, so as to communicate with the interior space within the casing. The casing is now filled interiorly with asbestos, cement, or other suitable plastic material, C, which, when set, shall possess sufficient solidity to resist compression, and is a good non-conductor of heat or cold. If the edges of the light-openings are uninclosed, it will be necessary, before the casing is filled, to place within each a wooden or other plug to prevent the escape of the plastic material, and to give to it a proper shape when set. The lenses B have any suitable size or shape, and are secured in place by cement, or by any desired means. The tile thus constructed possesses great strength, has but a fraction of the weight of a cast-iron tile, is so poor a conductor of heat or cold as to be incapable of sweating, and can be furnished at a comparatively low rate.

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

An illuminating pavement plate or tile composed of a double shell of sheet metal, having its interior filled with plastic material, 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.