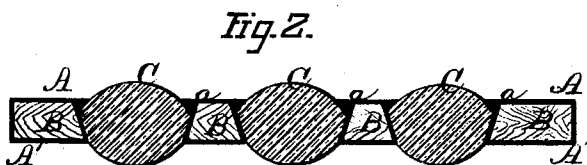
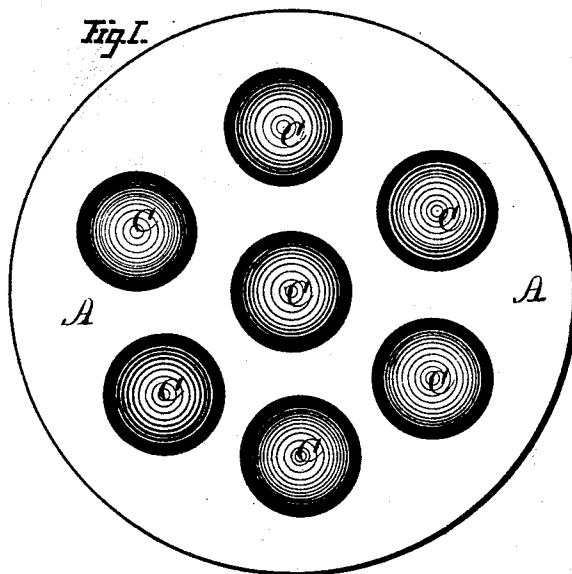


T. HYATT.

Non-Condensing Illuminating Vault-Covers.

No. 145,204.

Patented Dec. 2, 1873.



WITNESSES:

*Jas. E. Hutchinson
 John R. Young*

INVENTOR.

*Thaddeus Hyatt, by
 Prindle and Greave, 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. **145,204**, dated December 2, 1873; application filed October 22, 1873.

CASE 13.

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-Condensing 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 a tile 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 illuminating-lenses.

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

My invention has for its object the production of pavement-tiles, vault and area covers, &c., which, while cheap, substantial, fire-proof, and possessing all necessary strength and durability, shall be poor conductors of heat, cold, and sound; and to this end it consists in a tile composed of a sheet-metal casing inclosing a wooden center, substantially as and for the purpose hereinafter specified.

In the annexed drawing, A represents the upper and A' the lower side of a casing constructed of or from sheet metal, the edges of which sides are turned toward and united to each other, as shown. Within the space left between the plates A and A' is a correspondingly-shaped piece of wood, B, which wood may be of any desired species, but is preferably "Burnetized," or otherwise protected against decay, the whole thus combined hav-

ing any shape and size required, and presenting the appearance of an ordinary tile. A number of light-openings, *a*, are provided at suitable points within the tile, and in such openings are set corresponding illuminating-lenses, C, in any desired manner. The openings *a* may simply pass through the plates A and A' and wooden center B, or they may be permanently inclosed at their sides by metal thimbles, soldered or otherwise secured at their ends to or upon the contiguous portions of said plate.

The tile thus constructed is practically fire-proof, it being impracticable for its wooden center to burn while the sheet-metal covering remains. It is non-sweating by reason of the low heat and cold transmitting qualities of its center. It transmits but slightly the sounds upon either side. It weighs but little, and is therefore capable of use in places where the weight of cast-iron would be objectionable. It is durable, and can be furnished at a comparatively small cost.

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

A tile composed of a sheet-metal casing inclosing a wooden center, 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.