T. HYATT.

Illuminating Vault-Covers.

No. 145,194. Patented Dec. 2, 1873.

Fig. 1.

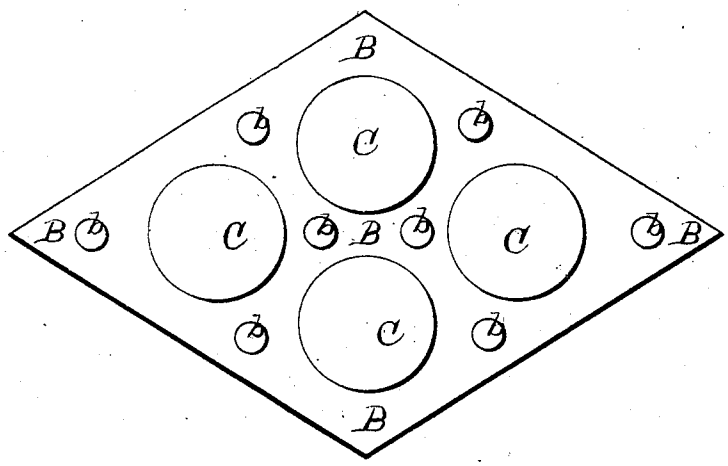
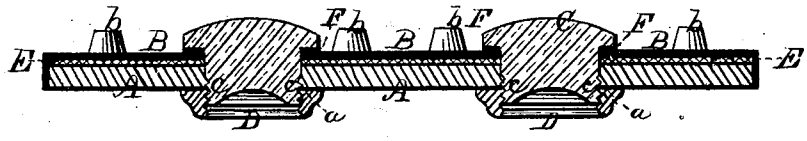


Fig. 2.



WITNESSES:

Jas. C. Hutchinson

John R. Young

INVENTOR.

Thaddeus Hyatt, by

Pindle and Deane, 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. **145,194**, dated December 2, 1873; application filed October 22, 1873.

CASE 19.

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 Pavement-Plates; 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 my improved pavement plate or tile, and Fig. 2 is a vertical section of the same upon a line passing through the center of a row of illuminating-lenses.

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

My invention relates to the construction of illuminating pavement plates, tiles, &c., in which the upper or bearing surface is made detachable; and it consists in a pavement-plate which is covered upon its upper side by a sheet-metal shell, that is held in place by means of the enlarged upper ends of illuminating-lenses and nuts placed upon the lower threaded ends of the same, substantially as and for the purpose hereinafter specified.

In the annexed drawings, A represents a pavement-plate, constructed of or from metal, wood, or other suitable material, and provided with a number of light-openings, *a*. Upon the upper side of the plate A is placed a sheet-metal shell, B, which, at its edges, is extended downward over the edges of said plate, and is provided with a series of light-openings, that correspond in number, size, shape, and position to those of the lower plate, so as to permit of the insertion within each of an illuminating-lens, C. As seen in Fig. 2, the upper end of each lens C is enlarged horizontally, so as to give to it a bearing upon the upper side of the casing B, immediately outside of the light-openings, while upon the body of said lens, near its lower end, is provided a screw-thread, *c*, which receives a correspondingly-threaded nut, D. As thus constructed, by screwing the nut D firmly upward against the lower side of the plate A, the lens C will be drawn downward, and its head will cause the shell B to be pressed firmly against said plate.

If desired, suitable bearing-buttons *b* may be attached to the upper side of the shell B, so as to relieve the lenses from abrasion by contact with the feet of passengers, and a sheet of rubber or other elastic material, E, may be placed between said shell and the plate A, for the purpose of lessening the sound caused by walking upon said parts. A rubber washer, F, placed beneath each lens-head, will effectually prevent the passage of water through the light-openings.

When the plate A is constructed from wood, the nuts D may be made of the same material, and condensation of moisture upon the lower side confined to the lower surface of the lenses.

The pavement-plate described possesses all required strength, is durable and cheap, and can be constructed and placed in position in localities where the production of those ordinarily used would be entirely impracticable.

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

A pavement-plate covered upon its upper side by a sheet-metal shell, which is held in place by means of the enlarged upper ends of its illuminating-lenses and nuts placed upon the lower threaded ends of the same, 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.