

(No Model.)

J. W. MARK.  
ILLUMINATING TILE.

No. 526,245.

Patented Sept. 18, 1894.

Fig. 1.

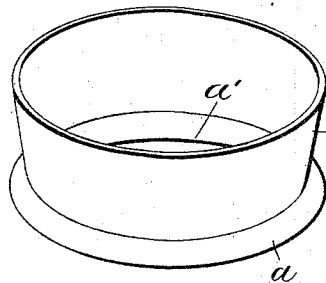


Fig. 2.

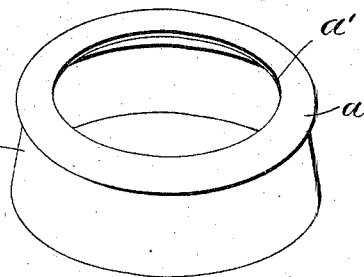


Fig. 3.

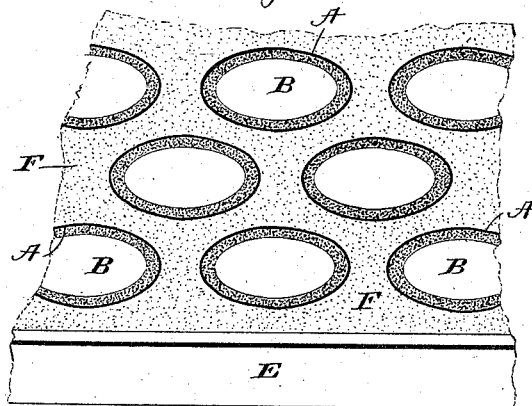
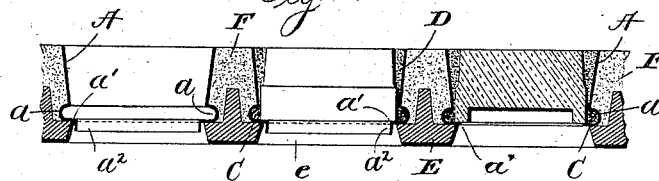


Fig. 4.



Witnesses:  
Jas. Hutchinso.  
C. J. Williamson.

Inventor.  
John W. Mark, by  
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# UNITED STATES PATENT OFFICE.

JOHN W. MARK, OF NEW YORK, N. Y.

## ILLUMINATING-TILE.

SPECIFICATION forming part of Letters Patent No. 526,245, dated September 18, 1894.

Application filed April 24, 1894. Serial No. 508,877. (No model.)

### *To all whom it may concern:*

Be it known that I, JOHN W. MARK, of New York city, in the county of New York, and in the State of New York, have invented certain new and useful Improvements in Illuminating-Tiles; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my lens ring from above. Fig. 2 is a like view of the same from the lower side. Fig. 3 is a perspective view of a tile provided with my lens holding rings, and Fig. 4 is a vertical section of the same upon a line passing through the centers of a row of light openings.

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

The design of my invention is the provision of a lens inclosing ring for illuminating tiles that will enable the formation of a secure and water-tight joint with the lens, and will be securely held in the tile against displacement from use, and to this end, said invention consists in a lens inclosing ring constructed substantially as and for the purpose hereinafter specified.

My invention relates to the class of illuminating tiles in which the lenses are first mounted, or secured in rings or bands and then placed in position over the light openings of the tile body.

In the carrying of my invention into practice I construct from sheet metal, preferably, a ring or band A, that has at its bottom, a hollow enlargement or projection  $a$  which extends entirely around the band, and from which enlargement, upward, it tapers or flares outward. Putty, C, being placed in the hollow enlargement  $a$ , a lens or glass B, that has such diameter as to substantially fill the contracted portion of the band A, is put within the latter, with its lower end embedded or surrounded by the putty C, and resting upon an inwardly extending portion  $a'$  of the enlargement  $a$ . The space between the lens and the outwardly tapering or flaring portion of the band A is filled with a suitable cement D, and then the lens and ring, thus combined,

are set over the light opening  $e$  of a tile body E, upon which, in the spaces between the lenses, is placed the usual filling of concrete, or like material F.

In addition to serving as a receptacle for putty to pack and form a water-tight joint at the lower end of the lens, the enlargement  $a$ , by its projection on the exterior of the ring A, enables the latter to be effectually locked in place, vertically, by the surrounding body of concrete F. The ring and lens, are, preferably, round or circular, as shown, but other shapes may be employed if desired, and instead of having the enlargement  $a$  at the bottom of the ring, it can be placed higher up. I, also, contemplate omitting the portion  $a'$ , upon which the lower end of the lens is seated, but such construction is less desirable than its employment, as in the latter case, the glass is less affected by the expansion and contraction of the iron tile and the concrete.

To hold the lenses in place over their light openings while the concrete is being applied to the tile, a short neck or extension  $a^2$ , is, as shown in Fig. 4, provided at the lower end of the ring A, to project into and engage the side of the light opening  $e$ .

Having thus described my invention, what I claim is—

1. As an improvement in illuminating tiles, a lens inclosing ring or band that has a hollow enlargement at its lower end to receive a packing or filling and tapers or flares outward and upward from such enlargement, substantially as and for the purpose set forth.

2. As an improvement in illuminating tiles, a lens inclosing band or ring made separate from the tile body, and provided at its lower end with a hollow enlargement and with a neck or extension to enter the light opening and engage the side thereof, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of March, 1894.

JOHN W. MARK.

Witnesses:

E. L. WHITE,  
HENRY C. HAZARD.