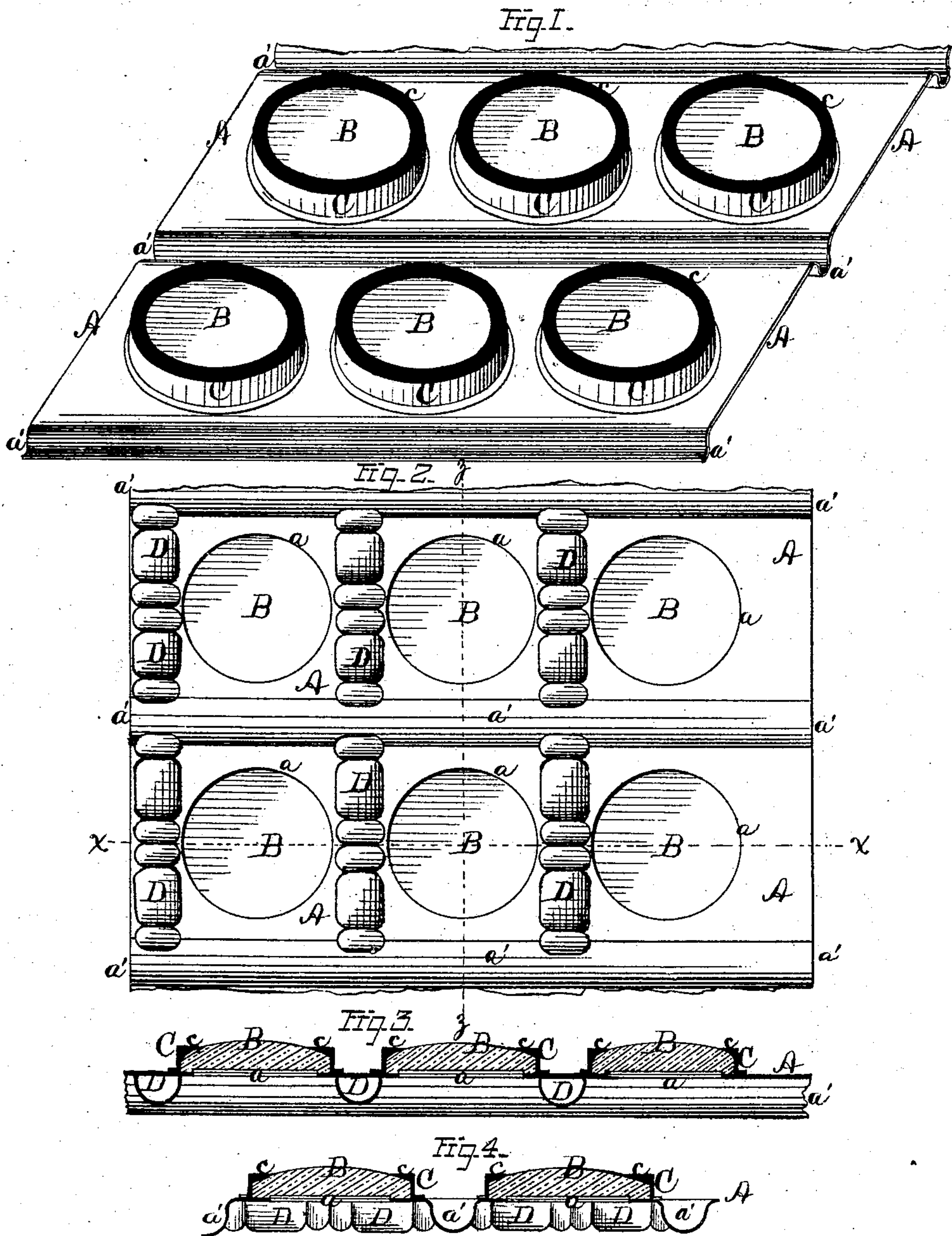


T. HYATT.

Illuminating Roofing-Tiles.

No. 152,380.

Patented June 23, 1874.



WITNESSES-

James E. Hutchinson
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INVENTOR.

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UNITED STATES PATENT OFFICE.

THEODORE HYATT, OF NEW YORK, N. Y.

IMPROVEMENT IN ILLUMINATING ROOFING-TILES.

Specification forming part of Letters Patent No. **152,380**, dated June 23, 1874; application filed June 1, 1874.

To all whom it may concern:

Be it known that I, THEODORE HYATT, 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 Roofing-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 perspective view of the upper side of my improved tile. Fig. 2 is a plan view of the lower side of the same; and Figs. 3 and 4 are sections upon lines xx and zz , respectively, of Fig. 2.

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

The design of my invention is to increase the strength, to lessen the weight, and render more certain and permanent the joints between the plate and lenses of an illuminating roofing-tile; to which end it consists, principally, in an illuminating-tile constructed of sheet metal, and provided with lens-holders which are permanently attached to the same, and are capable of receiving the usual forms of lens, substantially as and for the purpose hereinafter shown. It consists, further, in an illuminating-tile constructed of sheet metal, and provided with division-bars between the lenses, substantially as and for the purpose hereinafter shown. It consists, finally, in an illuminating roofing-tile constructed in the manner and for the purpose substantially as hereinafter set forth.

In the annexed drawing, A represents a roofing-tile, constructed of or from sheet metal, and provided with illuminating-openings a and a , that are arranged in lines and at points equidistant from each other. Between the rows of openings I preferably form a corrugation, a' , which operates to strengthen the plate in one direction, and also forms a channel for receiving water and conveying the same from the roof. The openings a and a are somewhat smaller in diameter than the lenses B and B, and are each surrounded by a sheet-metal curb, C, which corresponds interiorly to the exterior dimensions of the

latter, and forms a socket or holder for the same, the inward-extending edge of the plate A constituting the bottom bearing for said lens. The holders C and C, thus constructed, receive the lenses B and B, which have the usual form, and are secured in place by cement c , in the ordinary manner.

In addition to the office described, the lens-holders C and C stiffen the tile A, and so materially increase its strength as to permit of the employment of metal having less thickness, and to enable less frequent supports to be used. The strength of the tile is still further increased by a series of bars, D and D, which are soldered or otherwise secured upon its lower side between the contiguous lenses, said bars being, preferably, constructed of or from sheet metal, and "struck up" to the desired form.

The tile thus constructed possesses, in a marked degree, strength and rigidity, combined with light weight and high illuminating qualities, and is capable of use in places where no ordinary tile could be employed.

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

1. An illuminating-tile constructed of sheet metal, and provided with lens-holders which are permanently secured in place, and are capable of receiving the usual form of lens, substantially as and for the purpose specified.

2. An illuminating tile, A, constructed of sheet metal, and provided with division-bars D and D between the lenses B and B, substantially as and for the purpose shown.

3. The sheet-metal tile A, provided with the openings a and a and corrugations a' and a' , and having attached thereto the curbs C and C, lenses B and B, and the division-bars D and D, in the manner and for the purpose substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 29th day of May, 1874.

THEODORE HYATT.

Witnesses:

GEO. S. PRINDLE,
JOHN R. YOUNG.