

T. HYATT.

Ridge and Furrow Sidewalk Plates.

No. 140,707.

Patented July 8, 1873.

Fig. 1.

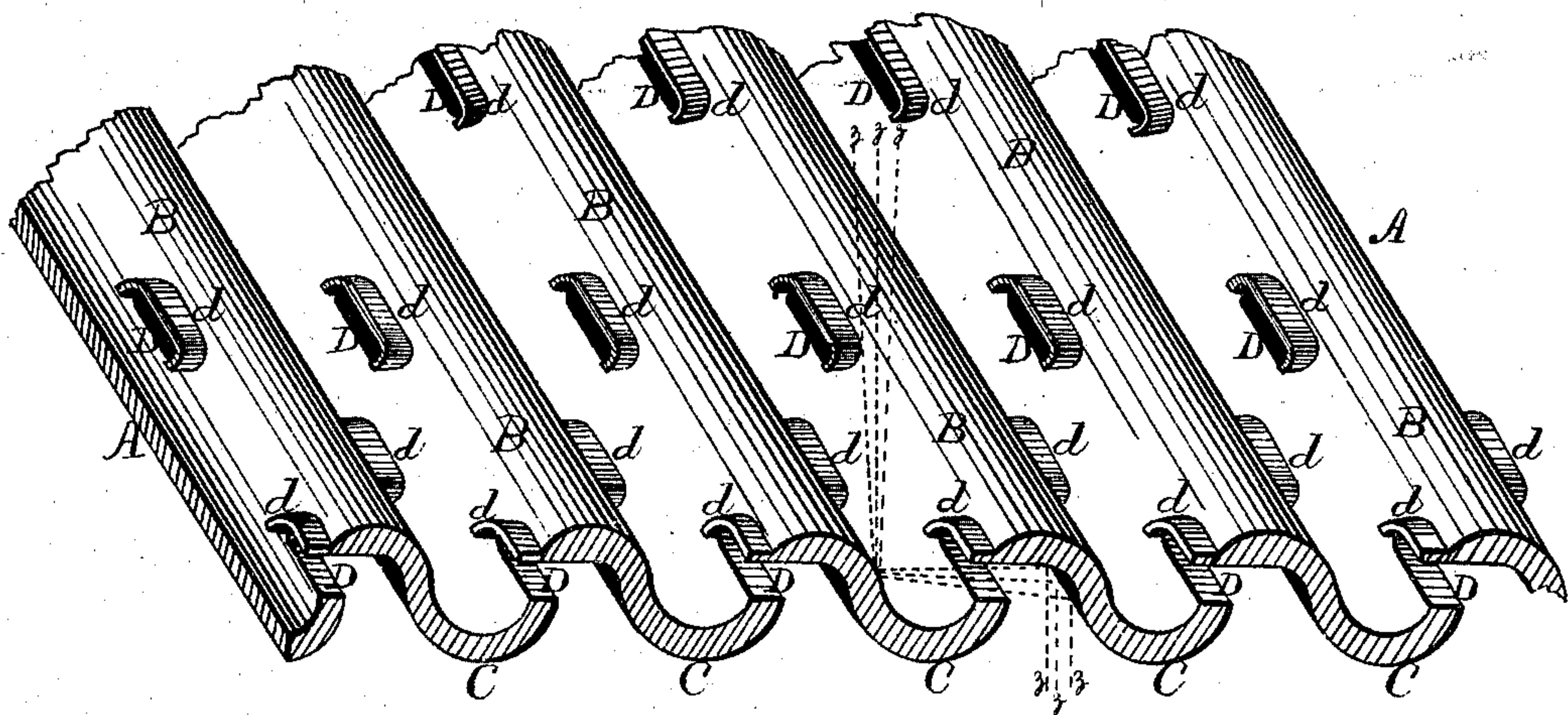


Fig. 2.

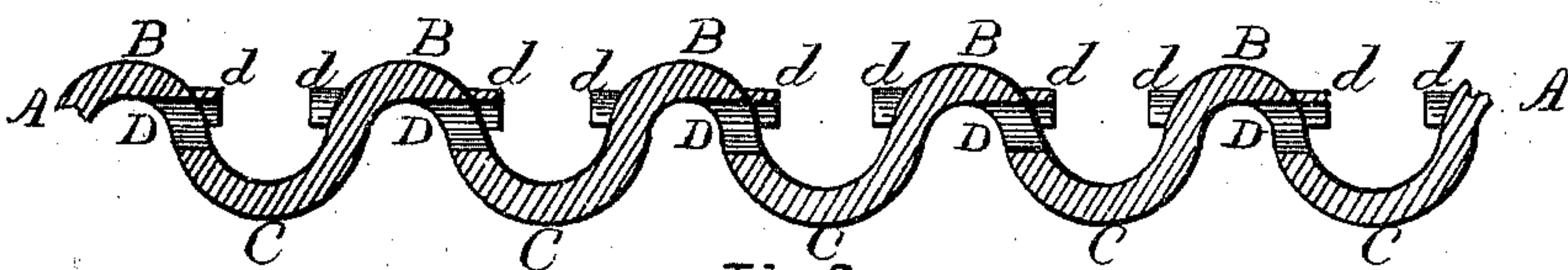


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

THADDEUS HYATT, OF NEW YORK, N. Y.

IMPROVEMENT IN RIDGE-AND-FURROW SIDEWALK-PLATES.

Specification forming part of Letters Patent No. 140,707, dated July 8, 1873; application filed May 31, 1873.

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 Ridge-and-Furrow Sidewalk-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 perspective view of a section of my improved pavement-plate. Fig. 2 is a section of the same upon a line at a right angle to the direction of the ridges, and Fig. 3 is a section upon a line extending lengthwise and through the center of one of said ridges.

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

The design of my invention is to furnish a cover for coal-holes, areas, &c., which, while affording complete protection from rain, shall permit light and air to be freely transmitted to the space beneath; to which end, it consists principally in a ventilating corrugated pavement-plate constructed with curved reflecting-surfaces, substantially as and for the purpose hereinafter specified. It consists further in the means employed for protecting the ventilating-apertures from or against the entrance of rain, substantially as is hereinafter shown.

In the annexed drawing, A represents a pavement-plate corrugated so as to produce a series of ridges, B, which are separated by means of intervening grooves or furrows C, as shown. Transversely the ridges and furrows are formed upon curved lines, while the dimensions of the former are preferably somewhat less than the corresponding feature of the latter. Passing horizontally in and through the sides of each ridge B is a series of openings, D, which are preferably elliptic in form, and extend from the upper side of the space within said ridge downward to a point midway between the upper surface of the same and the bottom of the contiguous groove C. The openings D are intended for the passage

of light and air; and, in order that rain may be prevented from entering the same, a projecting ledge or cowl, *d*, is secured upon the side of the ridge, and projects outward directly over each opening.

It is intended that the upper and lower surfaces of the plate A shall be protected by means of a coating of tin or of asphaltum varnish, either of which will materially increase the light-reflecting power of said surfaces.

By reason of the curved form of the corrugations, the rays of light passing downward upon the plate are reflected from the outer sides of the ridges directly opposite to each opening, through said openings, and against the inner sides of said ridges, from whence said rays are turned downward into the space beneath, as shown by the dotted lines *z z*.

When in use air and light are permitted to pass freely through the openings of the plate, while rain falling upon said plate is deflected from said openings by their cowls, and falls into the grooves, and from thence passes outward and away.

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

1. A ventilating corrugated pavement-plate, constructed with curved reflecting upper and lower surfaces, in which said surfaces and the ventilating-openings are relatively arranged to transmit the rays of light from above into the space beneath said plate, in the manner and for the purpose substantially as specified.

2. In combination with the ventilating-openings D, the cowls *d*, secured upon the sides of the ridges B, and extending outward over said openings, substantially as and for the purpose shown.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of May, 1873.

THADDEUS HYATT.

Witnesses:

GEO. S. PRINDLE,
EDM. F. BROWN.