

J. SMITH.
TILE-ROOF.

No. 174,021.

Patented Feb. 22, 1876.

Fig. 1.

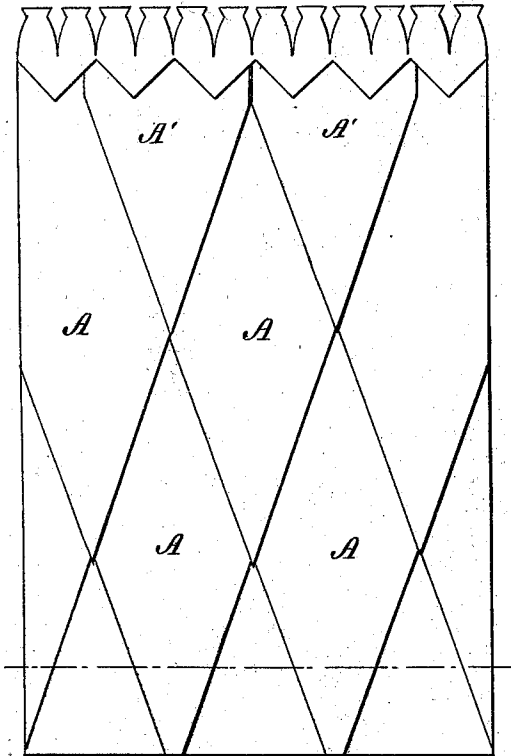


Fig. 2.

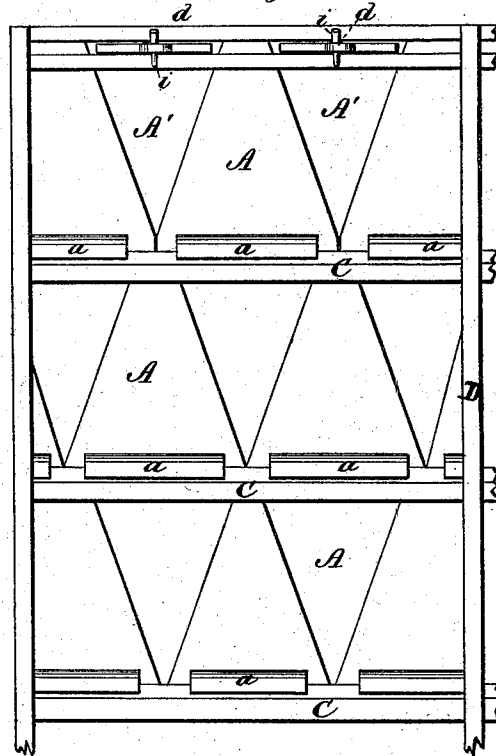


Fig. 3.

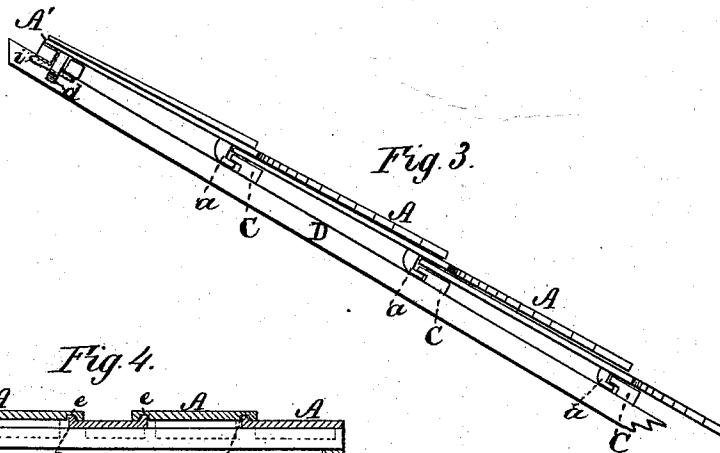
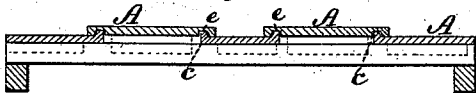


Fig. 4.



WITNESSES:
Glouckemond
Chas. A. Pettit

INVENTOR:
J. Smith
BY
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UNITED STATES PATENT OFFICE

JONAS SMITH, OF LEBANON, KENTUCKY, ASSIGNOR TO HIMSELF AND
JAMES T. LAPSLEY, OF SAME PLACE.

IMPROVEMENT IN TILE ROOFS.

Specification forming part of Letters Patent No. 174,021, dated February 22, 1876; application filed
January 8, 1876.

To all whom it may concern:

Be it known that I, JONAS SMITH, of Lebanon, in the county of Marion and State of Kentucky, have invented a new and Improved Tile Roof; and I do hereby declare that the following is a full, clear, and exact description of the same.

The greater durability and dryness of tile and metal-covered roofs, as well as the greater protection they afford against fire, have tended to rapidly extend their use in recent years, even in localities or districts subject to no restrictions in respect to the materials of which buildings are composed.

My invention is an improvement in tile roofs, and relates to the means of attaching the individual plates to the roof-frame, as herein described.

In the accompanying drawing, forming part of this specification, Figure 1 is a top-plan view of a portion of a roof-covering formed of my improved tiles; Fig. 2, a plan view of the reverse or under side of the same; and Figs. 3 and 4 are, respectively, longitudinal and cross-sections thereof.

The tiles or plates A closely approximate a lozenge or diamond shape, and are each provided with a flange or lug, *a*, attached transversely to the under side at about the middle thereof. Said lug is formed of the same material as the tile, and practically in one piece therewith. It has a right-angular form, as shown in Fig. 3, so as to clasp over the cross-bars C, which are grooved or rabbeted on the under side and upper edge, as represented. This, or an equivalent construction of the bars,

is necessary to enable the tiles to be attached at points immediately over each rafter D. To attach the tiles or plates A to the roof-frame. They are slid downward thereon until the lugs or flanges *a* pass behind the rabbet of said bars C, as shown in Fig. 3. They are thus held securely in place, but may be adjusted laterally as required to make perfect joint with those which overlap or are contiguous.

The lapped portions of the tiles or plates are provided, respectively, with ribs *c* and corresponding grooves *c*, Fig. 4, to prevent water finding its way through the joint.

The top row of half-length or triangular tiles or plates A' are, preferably, provided with perforated lugs *d*, and secured between two contiguous bars, C, by means of pins *i*.

It is apparent the tiles or plates are applicable to form a covering for the sides as well as the roofs of buildings.

I do not claim the form of the tiles, broadly, nor attaching them to a roof-frame by means of lugs, projections, or prongs; but I reserve the right to make an application for a design patent for the ornamental comb or roof-cap shown in Fig. 1.

What I claim is—

The plates or tiles A, provided with the flange or lug *a*, bent at a right angle, in combination with the rabbeted cross-bars C of the roof, as shown and described.

JONAS SMITH.

Witnesses:

AMOS W. HART,
CHAS. A. PETTIT.