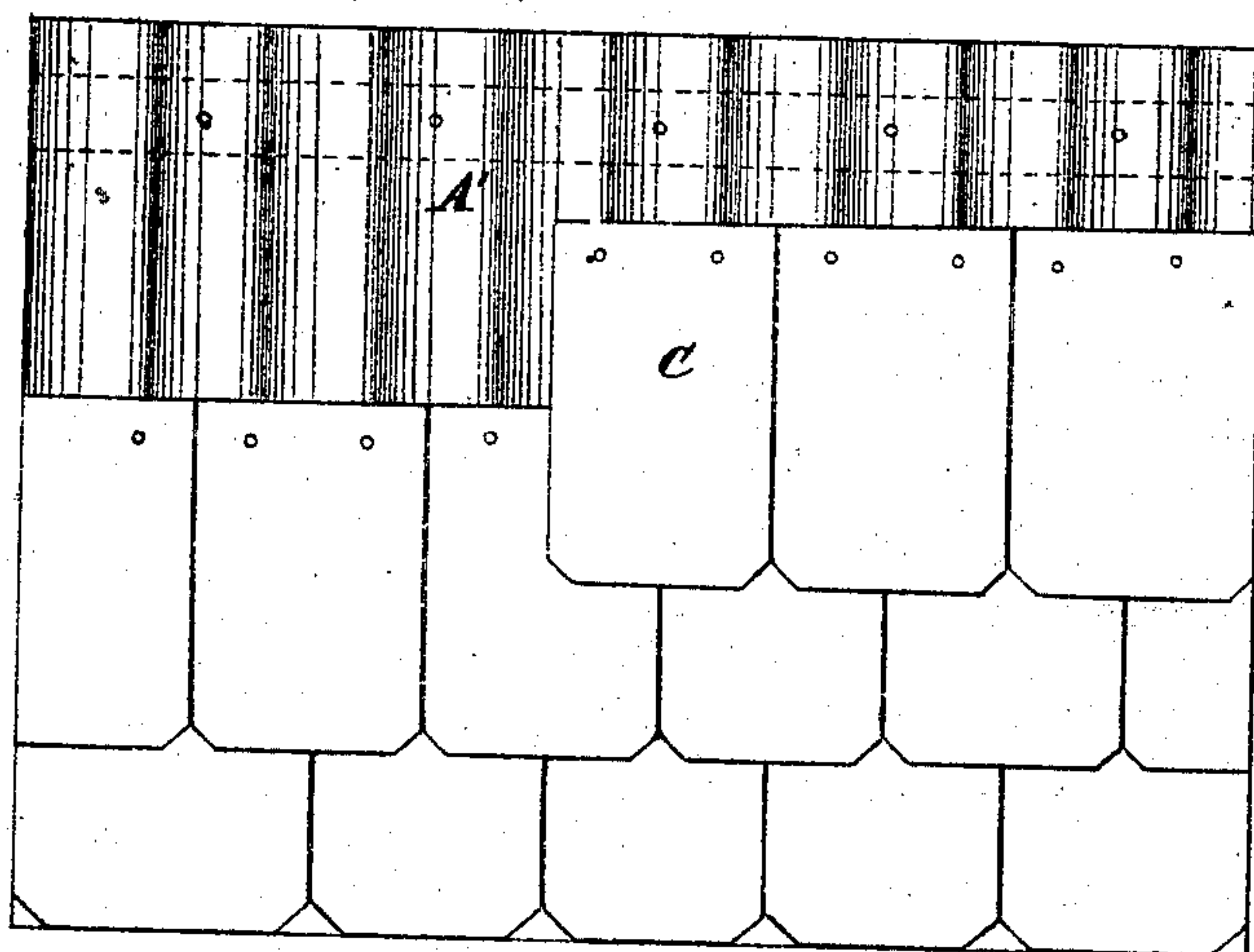


*J. B. Cornell.*  
*Fire-Proof-Roofing.*

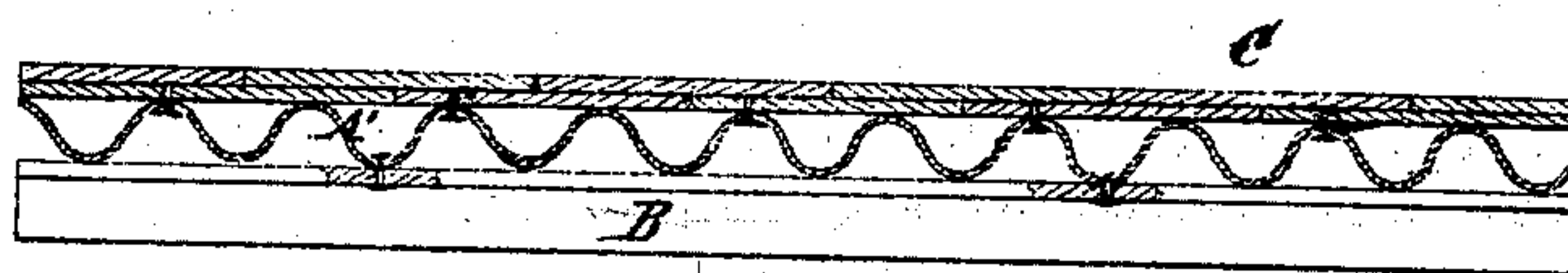
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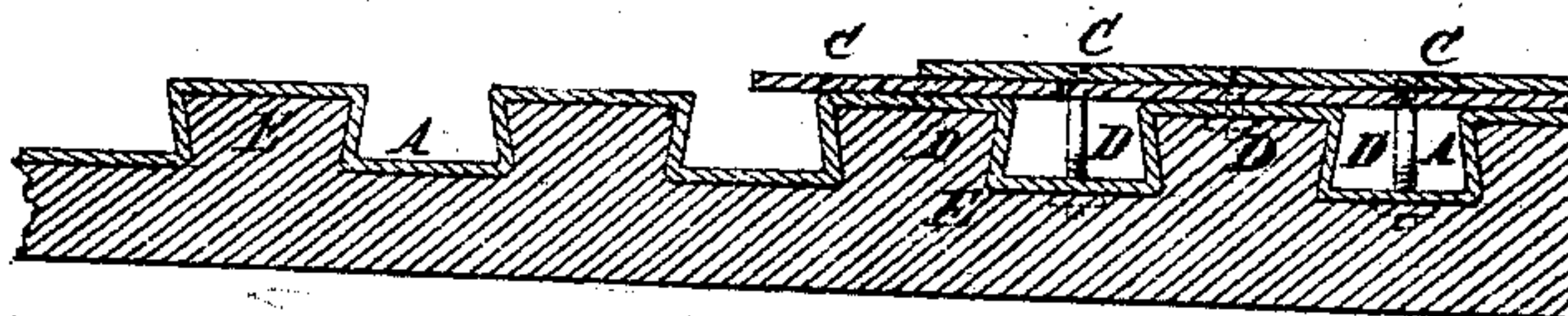
*Fig 1*



*Fig 2.*



*Fig 3.*



Witnesses:

*H. P. Smith*  
*James S. Brown*

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PER

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# UNITED STATES PATENT OFFICE.

JOHN B. CORNELL, OF NEW YORK, N. Y.

## IMPROVEMENT IN FIRE-PROOF ROOFING.

Specification forming part of Letters Patent No. 117,384, dated July 25, 1871.

*To all whom it may concern:*

Be it known that I, JOHN B. CORNELL, of New York, in the county of New York and State of New York, have invented a new and Improved Fire-Proof Roof; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 represents a plan view of a roof where metal sheet is shown. Figs. 2 and 3 are transverse views, showing two different forms of corrugation.

My invention relates to fire-proof roofing, and is more particularly intended for use in the construction of Mansard roofs.

I will now describe all that is necessary to a full understanding of my invention, and then clearly point it out in the claim.

A, Fig. 3, represents a corrugated sheet of iron, dovetailed in form, and thereby better adapted to the application of plastering. A', Fig. 2, represents a sheet with plain curvilinear corrugations, which can be rolled at less cost, and is yet equally well suited to the purpose where it is not intended to plaster. C are the ordinary plates of slate or imitation slate, which are arranged with relation to each other in the usual manner, but which are attached to the upward convex

corrugation of metallic sheets A or A'. D are screws or copper split nails, by which the plates are held to one another and to the sheets of metal. E, Fig. 3, is the plastering, applied to the sheet A, and rendered more adhesive thereto by the peculiar form of the corrugation. B, in Fig. 2, represents the rafters, to which the sheets are firmly attached.

By combining the corrugated iron with the slates I secure: 1st, an entirely fire-proof roof. 2d, one to which the slates can be easily attached. 3d, one which has channels that form a perfect conduit for water. 4th, one whose unjointed surface renders it absolutely water-tight under all circumstances.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A fire-proof roof, formed of slate C and corrugated metal sheet A', applied to a building in the manner specified.

2. The slate C, sheet A, and plastering E, combined and applied as and for the purpose specified.

JOHN B. CORNELL.

Witnesses:

A. A. JAYNE,  
THOS. CROCKER.