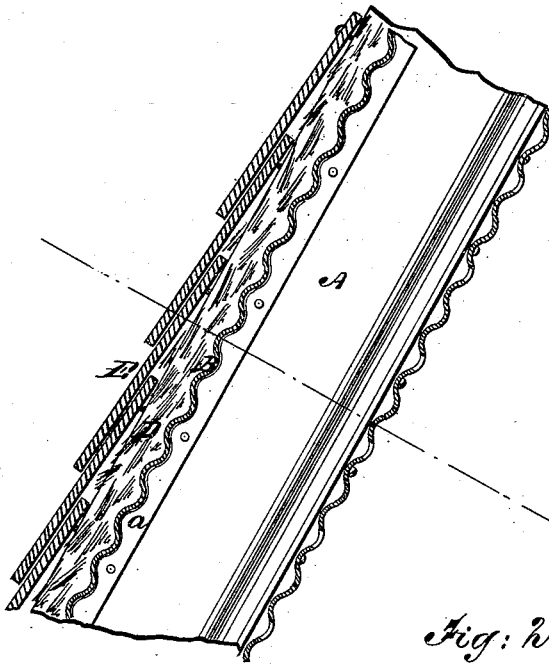


J. W. HOYT.  
FIRE-PROOF ROOFING.

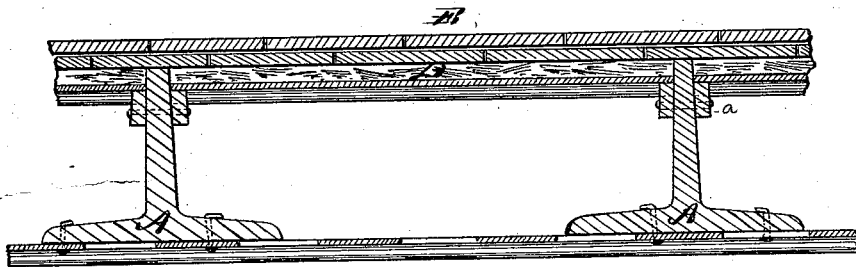
No. 187,140.

Patented Feb. 6, 1877.

*Fig: 1.*



*Fig: 2.*



Witnesses:  
*H. S. Maffenberg*  
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# UNITED STATES PATENT OFFICE.

JOHN W. HOYT, OF SPRINGFIELD, MASSACHUSETTS.

## IMPROVEMENT IN FIRE-PROOF ROOFING.

Specification forming part of Letters Patent No. **187,140**, dated February 6, 1877; application filed December 14, 1876.

*To all whom it may concern:*

Be it known that I, JOHN W. HOYT, of Springfield, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in Fire-Proof Roofing; and that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention is in the nature of an improvement in fire-proof roofing; and the invention consists in a fire-proof roof constructed without purlins, and with corrugated iron secured directly to the upright beams or rafters of the roof, the corrugations of the iron being at right angles to said upright beams; and the invention further consists in covering the outer surface of the inclosure of the roof with asbestos, to the surface of which is secured the slating.

In the accompanying sheet of drawings, Figure 1 is a longitudinal section of my invention, and Fig. 2 a cross-section of same.

Similar letters of reference indicate like parts in the several figures.

Fire-proof roofing has heretofore been constructed with purlins, to which the inclosing-covering has been secured as a foundation for the slates.

By my invention, however, I am enabled to dispense with the purlins, by securing the inclosing-covering directly to the upright beams or rafters of the roof, A representing such upright beams or rafters, which may be of the ordinary T form, or any other desired. To the outer surface of these beams or rafters I secure, in any convenient and substantial manner, the covering B, which is formed of

corrugated iron, so placed as to bring the corrugations at right angles to the length of the beams. This corrugated iron may be secured, as before stated, in any desirable manner, but it is preferably so secured with the aid of a cleat, *a*, bolted to the inner side of the beams. This cleat has a corrugated upper edge, which corresponds with, and fits into, the corrugations of the corrugated-iron covering.

The corrugations of the covering B being at right angles to the beams or rafters A, the beams are held even more securely in position than would be the case if they were provided with purlins.

This corrugated-iron covering may be covered on its outer surface with asbestos D, and the slating E secured thereon by bolts or wires passing through the slates and covering, to which they are secured in any desirable manner.

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

1. A fire-proof roof constructed with corrugated sheet-iron, secured to the beams or rafters of the roof, the corrugations of the sheet-iron being at right angles to the length of the beams, and the outer surface of the sheet-iron covered with asbestos or other non-combustible material and slates, substantially as and for the purpose described.

2. A fire-proof roof constructed with asbestos, in combination with slates or shingles, substantially as shown and described.

JOHN W. HOYT.

Witnesses:

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