

J. PARK.

Improvement in Roofing.

No. 133,247.

Patented Nov. 19, 1872.

Fig. 1.

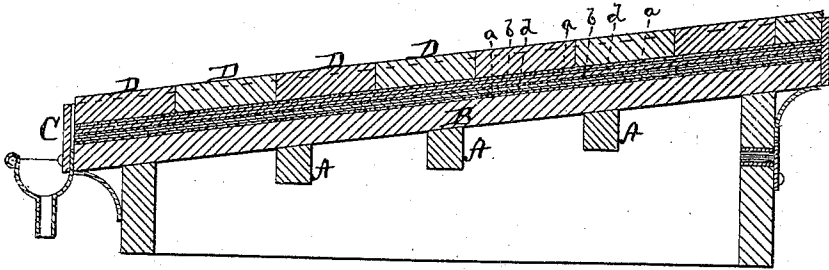
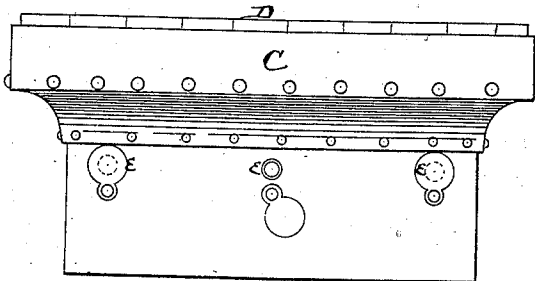


Fig. 2.



Witnesses:

Henry N. Miller
A. L. Ewert

Inventor

John Park
per Alexander M. Mavor

Attorneys.

UNITED STATES PATENT OFFICE.

JOHN PARK, OF JOLIET, ILLINOIS.

IMPROVEMENT IN ROOFING.

Specification forming part of Letters Patent No. **133,247**, dated November 19, 1872; antedated November 18, 1872.

To all whom it may concern:

Be it known that I, JOHN PARK, of Joliet, in the county of Will and in the State of Illinois, have invented certain new and useful Improvements in Roofing; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction of roofs for buildings, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a vertical section, and Fig. 2 a side view, of my roof.

A represents a roof-frame, made strong in any suitable manner; and this frame is sheeted over with tongued-and-grooved flooring-boards B, driven up and nailed down tight as a floor. A thick wash of alum and salt is then made, in proportion of one pound of alum to ten of salt, with water sufficient to mix them. This wash is swept evenly all over the roof to saturate the sheeting B, and while it is yet wet a layer, *a*, of dry salt is sifted over it so as to cover the sheeting all over white. The roof is then covered all over with felt roofing-paper *b*, saturated with alum and salt in the same proportions as above, more or less; and when the paper is dry it is coated all over with a mixture, *d*, of resin and tallow. The resin and tallow, in the proportions of two to one, (more or less,) are melted together, and, while hot, brushed over the paper felt until every part is well covered over. Another layer, *a*, of salt is then sprinkled over the same, as before. Then another layer, *b*, of felt roofing-paper, saturated with salt, is put on so as to break joints over the first sheet of paper. This second layer of felt paper is then covered with another coating, *d*, of resin and tallow, and still another layer, *a*, of salt. Around the edges of the roof is nailed or otherwise firmly secured a heavy sheet or cast iron curbing, C, to inclose the brick tiles D D. These tiles are to be made about one inch and an eighth thick, or thereabout, and six inches broad by ten

inches long, and they are to be laid all over the top of the roof to prevent fire from catching that might be carried from any burning building, the brick tiles to be laid with close joints in thin lime and sand mortar. After the tiles are laid I take a brick and rub all over the roof to smooth it off.

This roof, when laid as above described, will be perfectly water and fire proof, the resin and tallow preventing the water from leaking through the paper felt, and also keeping the paper from decaying or rotting; and it cannot ignite below the brick for want of air. The tongued-and-grooved sheeting B being air-tight and saturated with salt and alum, (non-conductors of heat,) it cannot ignite, in case of a hot fire above, for want of air below; and the salt always retaining moisture, it will prevent the sheeting from swelling or shrinking.

In the side of my roof are holes *e e* to vent off stagnated and heated air; and in case of a building taking fire in the inside water can be thrown in through these holes. They may be opened or closed at pleasure.

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

1. The air-tight tongued-and-grooved sheeting B, saturated with salt and alum, substantially as herein set forth.

2. The felt roofing-paper *b*, saturated with alum and salt and laid upon a layer, *a*, of salt; then its upper side covered with a mixture, *d*, of resin and tallow, and a layer, *a*, of salt sprinkled on top of the same, substantially as herein set forth.

3. The within-described roof, consisting of the air-tight sheeting B, saturated with salt and alum, and a layer, *a*, of salt sprinkled on top; then one or more courses of felt paper, *b*, saturated with salt and alum, a composition, *d*, of resin and tallow, and a layer, *a*, of salt, and on top of all a layer of brick tiles, D D, inclosed within a curbing, C, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of March, 1872.

JOHN PARK.

Witnesses:

MARTIN WESTPHAL,
NEWTON PARK.