

UNITED STATES PATENT OFFICE.

AMZI G. HENNION, OF BUFFALO, NEW YORK.

IMPROVEMENT IN CEMENTED SLATE ROOFING.

Specification forming part of Letters Patent No. **141,437**, dated August 5, 1873; application filed May 3, 1873.

To all whom it may concern:

Be it known that I, AMZI G. HENNION, of Buffalo, in the county of Erie and State of New York, have invented certain new Improvements in Cemented Slate Roofing, of which the following is a specification:

This invention relates to a composition and preparation, to be hereinafter described, to be combined with common slates for flat roofs, or those with a slight pitch, whereby the roof is made hard like a pavement and non-combustible.

It is made and applied as follows: First, I take tarred paper or felt and lap it as in composition gravel roofing; then I put a heavy coat of composition, made of tar and gypsum or ground stone, over the whole surface of the paper, the same as if a complete cement roof were to be made; I then take the ordinary-sized slates, lay them on closely together without lapping, bed them solid in the composition, and "point" the joints between each slate with a trowel, the same as in mason-work. This cements them all together, so that neither water nor any dampness can penetrate through the interstices where the slates join. This makes, in fact, a slate roof for flat houses, for which this composition or combination is more particularly intended, and from which the slates cannot be displaced, making a permanent solid surface without the probability of contracting, expanding, or cracking, repre-

senting a fire-proof stone surface, which are the great and important advantages of my invention, but which is also one of the simplest and cheapest, as well as the most durable of roofs.

The slate topping keeps the tar from evaporating, cracking, or boiling up.

The composition roofing generally used, by evaporation and other causes, wears out in a few years, while mine, by the use of the slates, effectually prevents any action of the weather, and consequent wear.

I am aware that a roofing has been composed of felt or paper saturated with tar and placed on a roof, after which is applied a coating of pitch or resin and mineral or vegetable tar, followed by a layer of sand, and the whole covered with tiling; but such is not my invention, nor is it claimed by me; but

I claim—

A roofing, consisting of tarred paper or felt, tar, gypsum, or broken stone, and slabs of slate, combined and applied substantially as set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

A. G. HENNION.

Witnesses:

J. R. DRAKE,
J. M. SPIES.