

United States Patent Office.

LEVI S. ENOS, OF ALMOND, NEW YORK.

Letters Patent No. 94,877, dated September 14, 1869.

IMPROVED SHEET-METAL FOR ROOFING AND FOR OTHER PURPOSES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, LEVI S. ENOS, of Almond, in the county of Allegany, and in the State of New York, have invented certain new and useful Improvements in Metallic-Roofing; and do hereby declare that the following is a full, clear, and exact description thereof.

My present invention is intended as an improvement on the metallic roofing patented by me January 12, 1869, and consists in adding to the ingredients therein mentioned, bismuth, in certain proportions herein-after to be set forth; also, in the use of lead and bismuth alone for roofing.

In my patent of January 12, 1869, I stated that the proportions of the ingredients were as follows:

One-fourth of a pound of block-tin to one pound of lead, or one part block-tin to four parts of lead; also, that I might use the metals in equal proportions, part for part, where a finer compound should be required.

I now desire to add bismuth in the following proportions:

To one hundred pounds of block-tin and lead, add from one to sixteen ounces of bismuth, according to the quality of the roofing desired.

When these metals are heated to about from 400° to 600°, I introduce from a half to one pound of

rosin, which separates all foreign substances from the metals.

In purifying metals in this way, the ingots are free from all flaws, and a more perfect sheet is obtained without flaws or cracks.

The rosin also keeps the metal from chilling on its passage from the pots or retorts to the ingots or moulds.

If a cheaper article of roofing is desired, the block-tin can be entirely dispensed with, and a roofing composed solely of lead and bismuth be formed that will answer all ordinary purposes.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. As an article of manufacture, a metallic roofing, composed of block-tin, lead, and bismuth, or lead and bismuth alone, substantially as herein set forth.

2. The process above described, for manufacturing metallic roofing, substantially as herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand, this 24th day of May, 1869.

LEVI S. ENOS.

Witnesses:

WM. S. HAWLEY,
MORRIS QUINN.