

S. COX.
Metallic Roofing.

No. 154,649.

Patented Sept. 1, 1874.

Fig. 1.

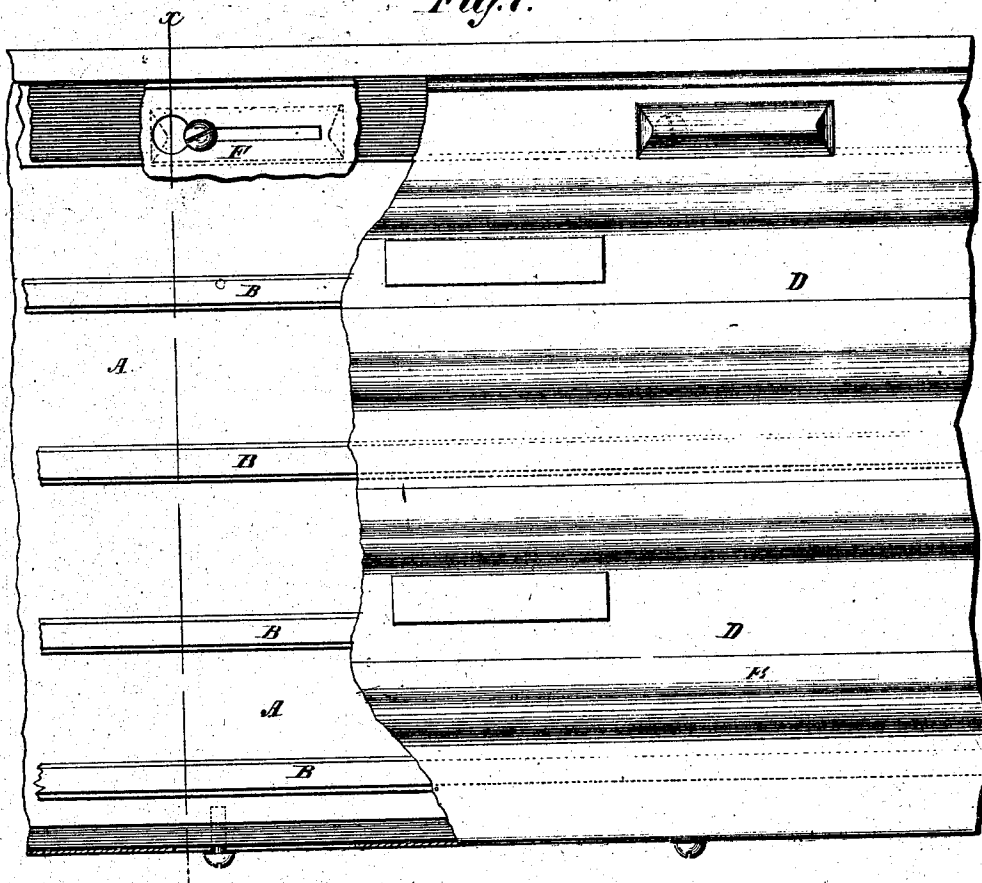
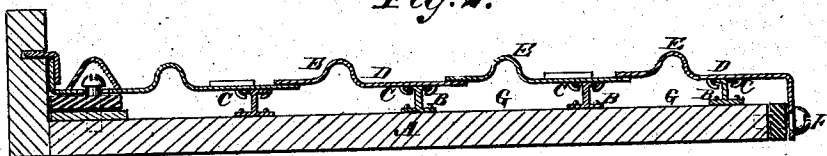


Fig. 2.



WITNESSES:

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SETH COX, OF OSKALOOSA, IOWA.

IMPROVEMENT IN METALLIC ROOFINGS.

Specification forming part of Letters Patent No. 154,649, dated September 1, 1874; application filed July 3, 1874.

To all whom it may concern:

Be it known that I, SETH COX, of Oskaloosa, Mahaska county, Iowa, have invented a new and useful Improvement in Metallic Roofing, to be known by the name "American Roofing," of which the following is a specification:

The object of this invention is to construct a new and improved kind of metallic roof; and it consists in the provision made for counteracting the effects of expansion and contraction incident to changes of temperature, the said provisions being in the corrugations and manner of attaching the metal to the roof boards or timbers.

In the drawing, Figure 1 is a top view, with a portion of the corrugated roofing broken away to show the flanged strips or rails on which the corrugated roofing rests and to which it is confined; and Fig. 2 is a cross-section of Fig. 1, taken on the line *x x*.

Similar letters of reference indicate corresponding parts.

A are the roof-boards or sheathing. B represents double-flanged metallic strips or rails, attached to the roof-boards or rafters by means of nails or screws through their lower flanges. C are clasps attached to the under side of the metallic roofing, which clasps are bent so as to receive the upper flanges of strips B. D is the corrugated metallic roofing. E represents the corrugations. The roofing D is formed of sheets of metal soldered together, so as to make a continuous water-proof sheet or roof; and the sheets, (the whole or a part,) provided

with the clasps C, are slipped onto the strips B, and thus confined to the roof. This allows the roof to expand and contract in one direction, while the corrugations E allow it to expand and contract in the other. The clasps C confine the metallic roof to the boards or rafters; but the edges are fastened by means of screws F, which pass through slots in the metal sheets.

Instead of continuous strips B to hold the roof down, a succession of screws may be driven into the roof boards or timbers, with the heads of which the clasps C may engage; but I prefer the continuous strips or rails B.

G represents the air-space between the metallic roofing and the roof-boards or sheathing. This air-space serves as a shield to protect the building from fire on the roof. This space G may be greater or smaller, as may be desired, according to the depth of the flanged strips or rails B; and, as air is a good non-conductor of heat, this space will prove a protection in all ordinary cases.

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

In combination with a metallic roof, the clasps C, flanged rails B, and corrugations E, substantially as and for the purposes described.

SETH COX. [L. S.]

Witnesses:

CYRUS BUTLER, [L. S.]
L. H. HOLE. [L. S.]