

Nelson G. Northrup. Roof for Buildings.

117104

PATENTED JUL 18 1871

Fig. 1.

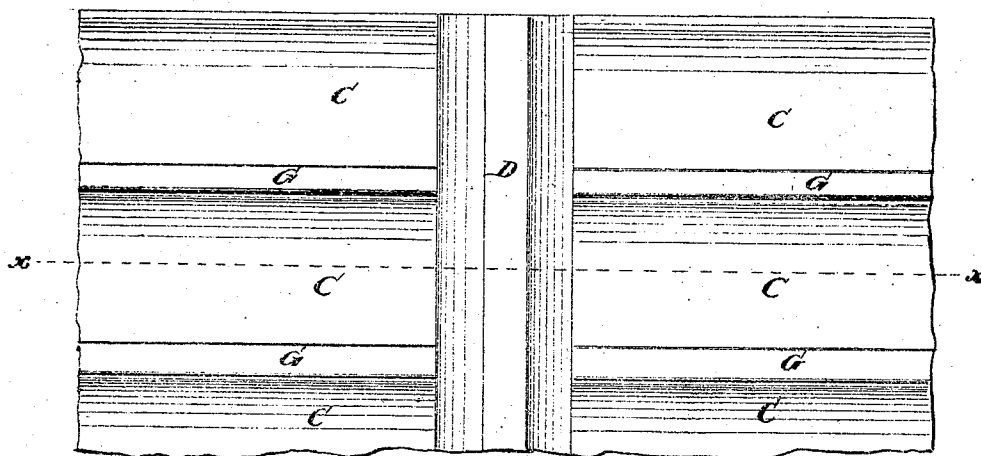


Fig. 2.

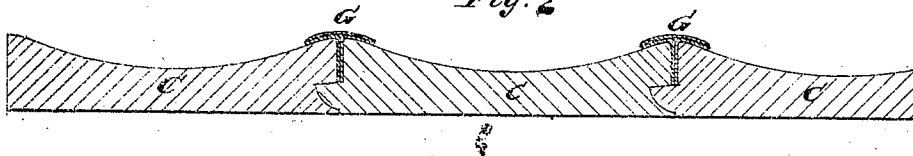
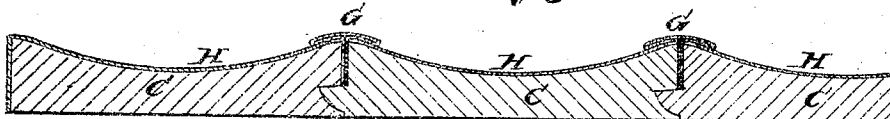


Fig. 3.



Witnesses:

E. Wolff.

Jm. H. C. Smith.

Inventor.

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per Munn. & Co.
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UNITED STATES PATENT OFFICE.

NELSON G. NORTHUP, OF BLOOMINGTON, MINNESOTA.

IMPROVEMENT IN ROOFS.

Specification forming part of Letters Patent No. 117,104, dated July 18, 1871.

To all whom it may concern:

Be it known that I, NELSON G. NORTHUP, of Bloomington, in the county of Hennepin and State of Minnesota, have invented a new and Improved Roof; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification.

My invention consists in an improvement for making the joints of a roof water-tight, as hereinafter fully described and subsequently pointed out in the claim.

Figure 1 represents the top view of a roof, and Figs. 2 and 3 sectional views.

C are the roof-boards. H are sheet-metal plates with which they may be covered. G are long sheet-metal caps, bent over until they assume the shape of the letter T and present a central and two side flanges. The shank enters the joint between the boards or plates and is clamped there-

in, while the arms are made to overlap on each side and shed the water from the joint. A cap-joint break like this will thus have ample opportunity to contract and expand, according to temperature, without the joint being injuriously affected thereby.

Having thus described my invention and all that is necessary to a full understanding thereof, what I esteem to be new, and desire to protect by Letters Patent, is—

The long metal caps G, constructed with a central and two side flanges to adapt it to be inserted into the joint of the roofing-plates or boards and to overlap on both sides, as and for the purpose specified.

NELSON G. NORTHUP.

Witnesses:

CHARLES W. DAILEY,
GEORGIA A. OLIN.