G. W. ROBINSON.

Improvement in Roofing.

No. 123,511. Patented Feb. 6, 1872.

Fig. 1

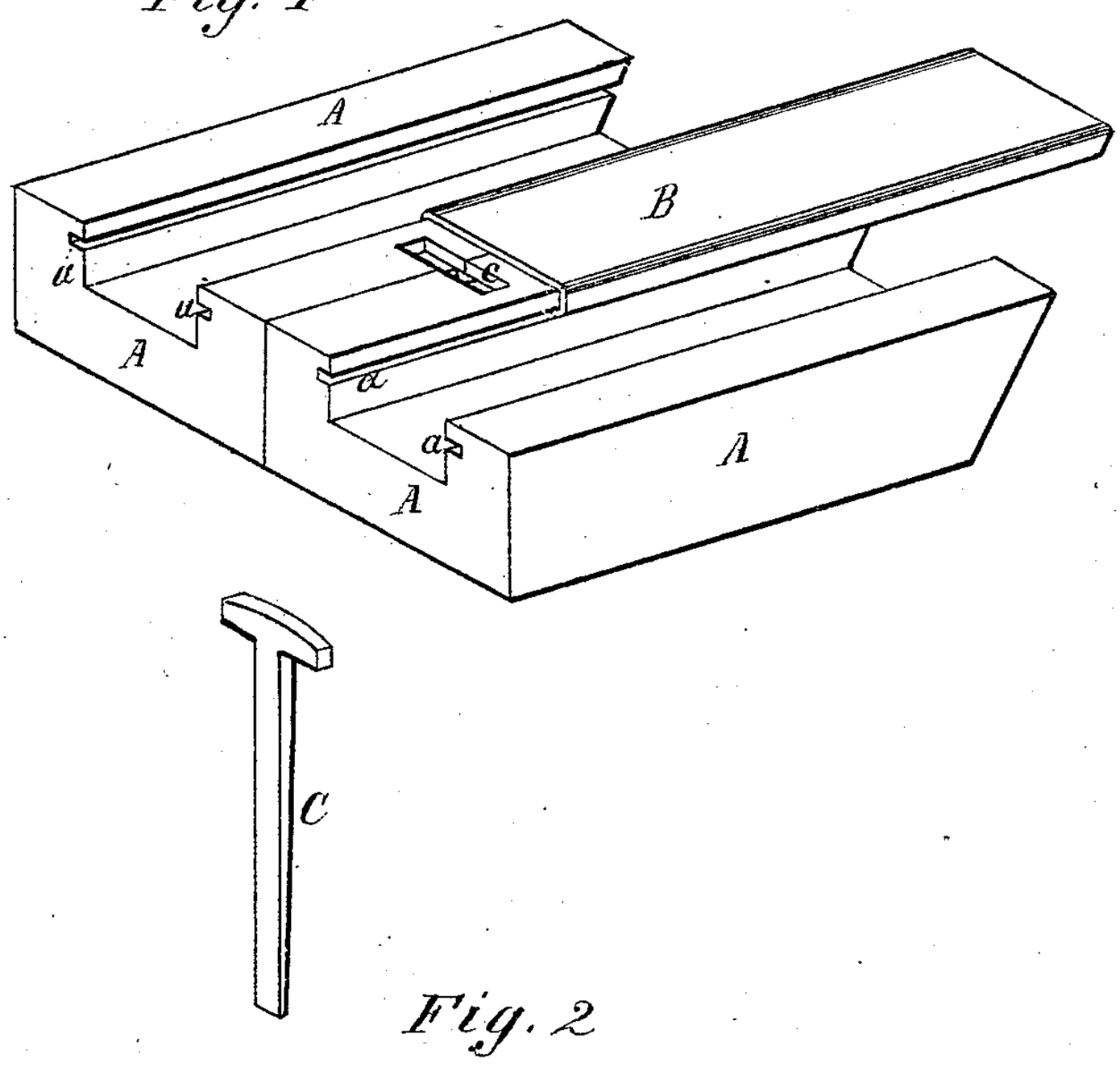
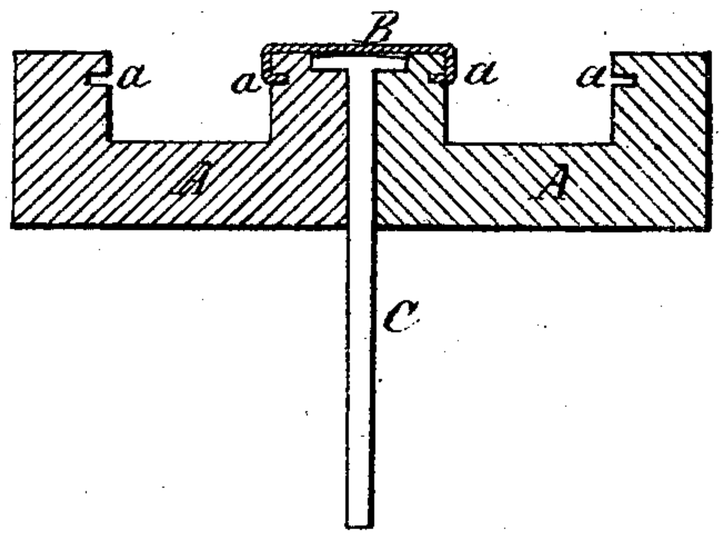


Fig. 2



Witnesses

John F. C. Preinkert

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UNITED STATES PATENT OFFICE.

GEORGE W. ROBINSON, OF BENNINGTON, VERMONT.

IMPROVEMENT IN ROOFING.

Specification forming part of Letters Patent No. 123,511, dated February 6, 1872.

To all whom it may concern:

Be it known that I, GEORGE W. ROBINSON, of Bennington, in the county of Bennington and State of Vermont, have invented a new and useful Improvement in Roofing; and I do hereby declare the following to be a full, clear, and exact description of the same, sufficient to enable others skilled in the class to which my invention appertains to fully understand and apply the same, reference being had to the accompanying drawing which forms part of this specification, in which—

Figure 1 is a perspective view of my improvement in roofing. Fig. 2 is a vertical cross-section through Fig. 1.

Like letters of reference indicate like parts in the several figures..

In the drawing, A represents the boards, which have channels cut in their upper surfaces, and raised edges. B is a metal strip, whose edges are bent down and inward, to fit into the grooves or space *a a*, and thus cover the seams between continuous boards. This strip may be either sprung on, forced on longitudinally, or the strip may be laid on and the edges bent under afterwards. In the latter case that portion of the wood immediately below the groove *a* would have to be removed, so that the edges of the strip B could be turned under. The entire roof is made of boards, substantially as shown in the drawing, or the boards may be only channeled at their edges, so as to produce a raised edge, in which a groove, *a*, can be made. Every seam of the roof between the boards is covered by strips B. The boards run crosswise or up and down like the rafters of a building; therefore the spaces between the raised edges act as gutters, or, if preferred, these spaces may be dispensed with. The countersunk hole *c*, shown in Fig. 1, is made by driving the T-headed nail C down through the seam between the boards, one half of the groove being made in each of the two boards. The countersunk space for the head of the nail is made by driving the nail down into the wood. The long T-headed nail C is driven down through strips which run crosswise on the rafters, and thus the roofing is held upon the rafters, and these nails may be driven along the seams as near together as desired. These nails not only hold the roofing upon the rafters, but both prevent the boards from moving longitudinally, and permit them to contract and expand. It is evident that the strips B can readily expand as the boards contract, or contract as the boards expand, and, therefore, accommodate themselves to the lateral movements of the boards under cold and heat. I do not limit myself to a metal strip, B, as other material could be used, as, for instance, rubber, felting, &c., without changing the character of my invention. A modification of my invention is produced in cutting a slot down and inward toward the seam on each side of the same, and running a bent strip of metal longitudinally in the grooves and over the seam, and by inserting the nail as before described.

I am aware of a patent in roofing in which there is a bent metal strip, and in which the boards are rigidly nailed down, but the nails do not permit contraction and expansion of the boards as in my invention. I am also aware of a patent in which the bent-metal strip is tacked down to the boards, and in which the nails that hold the boards down pass between the boards, said nail having a plate of metal under its head, but this, too, differs from my invention in this, viz.—that I do not tack my strip of metal down, and as the plate and nail-head cannot be countersunk by hammering to permit the bent-metal strip to be pushed on longitudinally, as in my invention.

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

The combination of the strip B, bent under a flange on the boards A A, with the nail C, as and for the purpose set forth.

GEORGE W. ROBINSON.

Witnesses:

NATHAN K. ELLSWORTH,

MELVILLE CHURCH.