

(No Model.)

J. H. ELLER.

METAL ROOFING.

No. 336,098.

Patented Feb. 16, 1886.

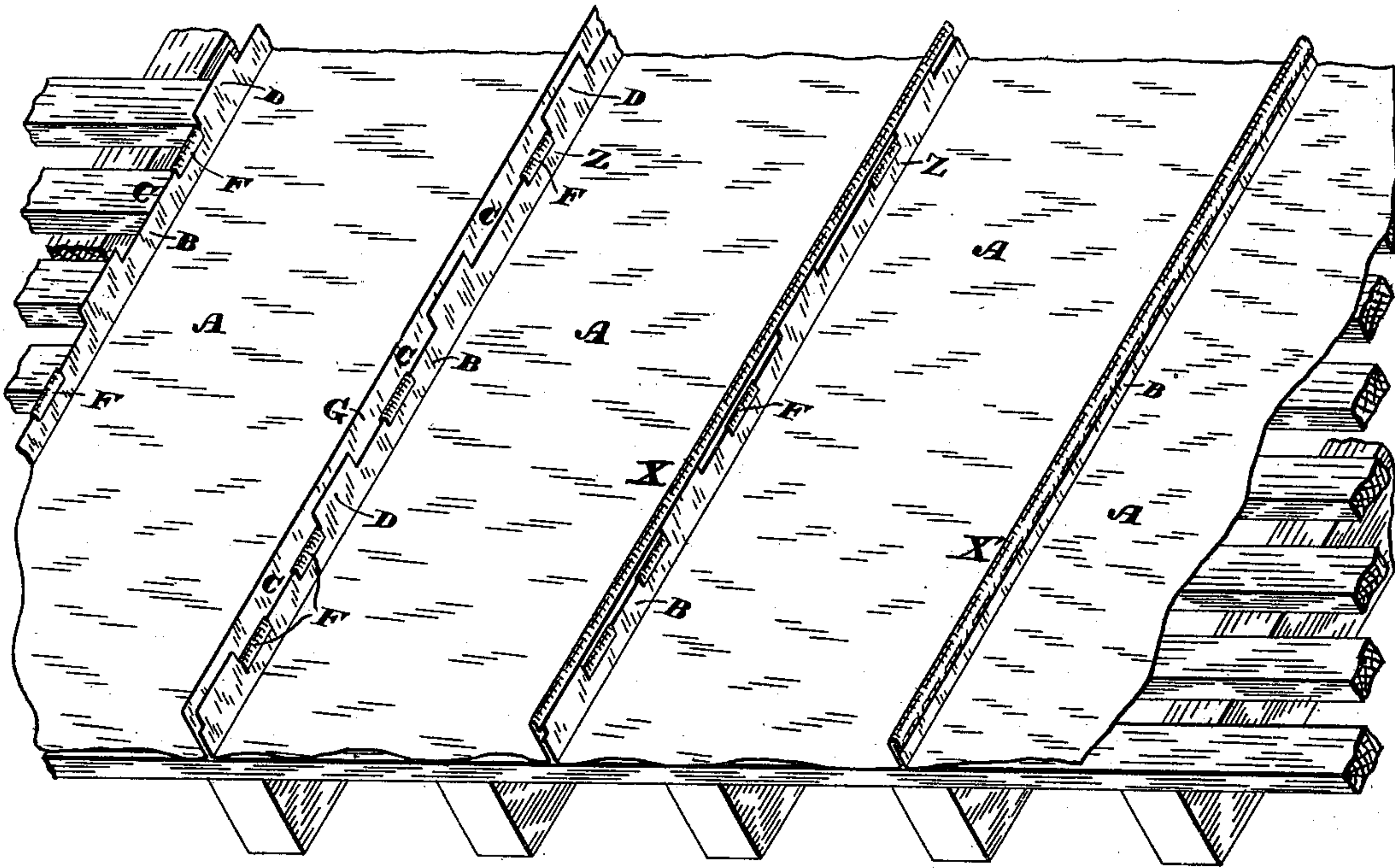


Fig. 1.

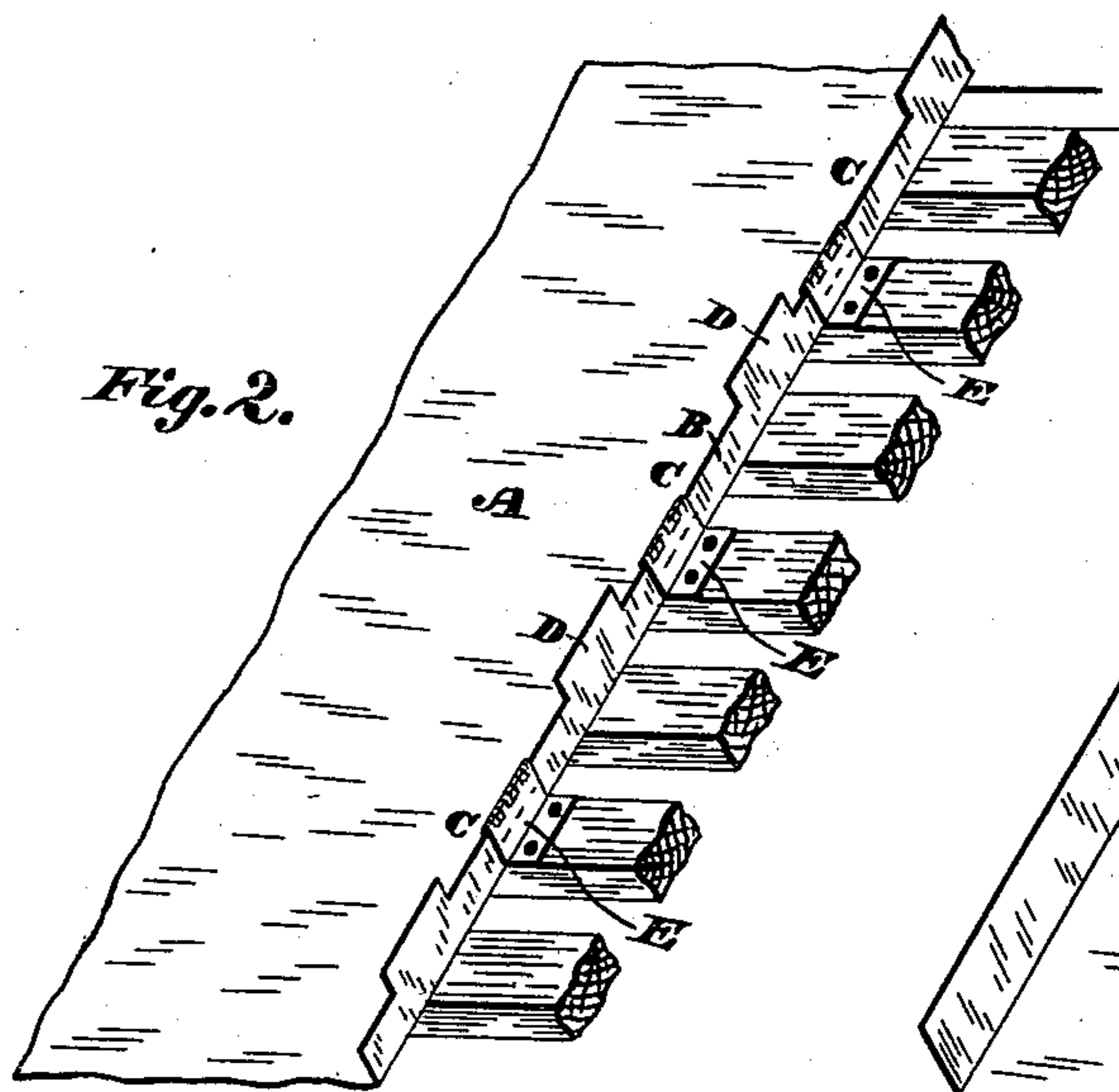


Fig. 2.

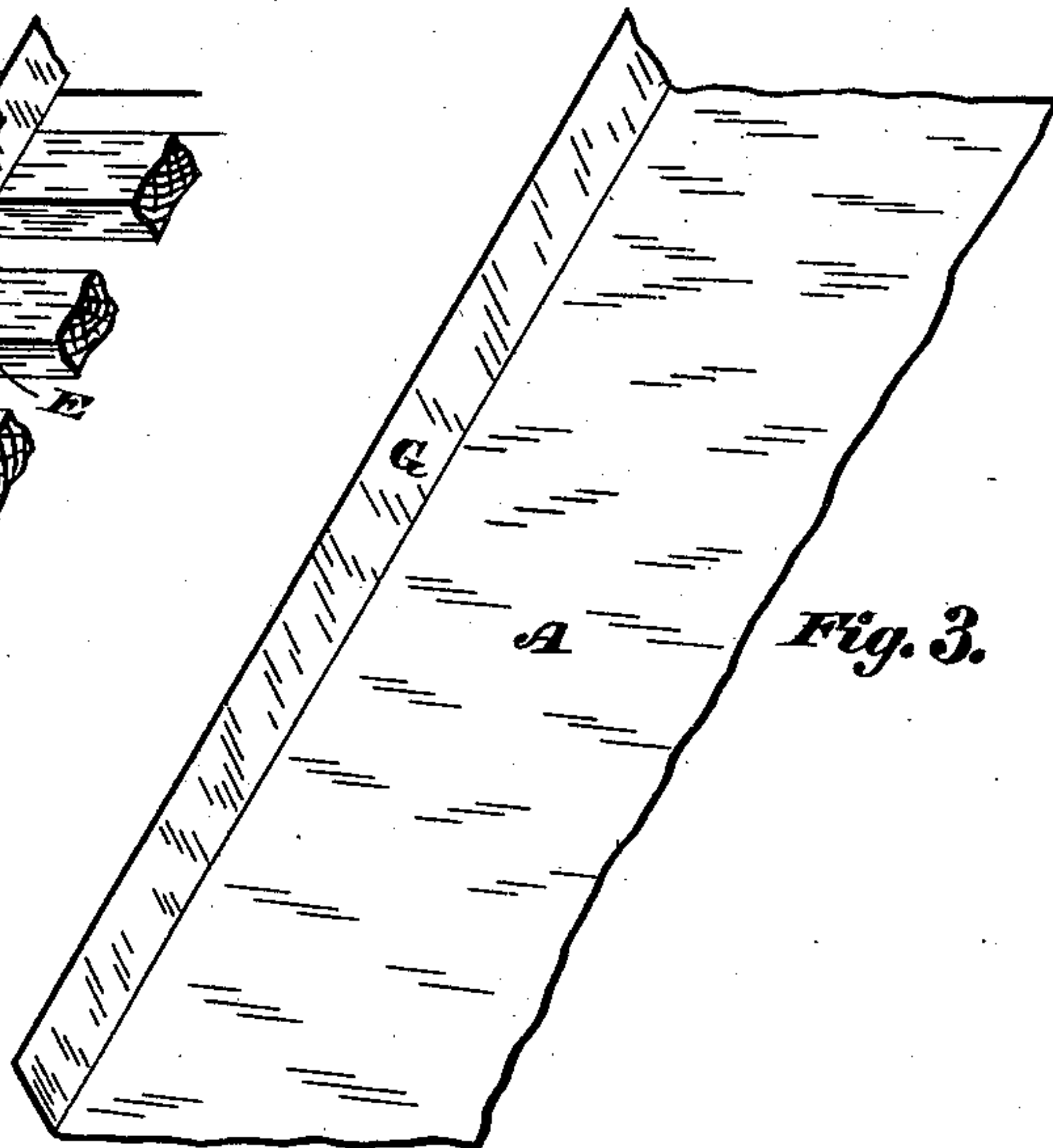


Fig. 3.

WITNESSES

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# UNITED STATES PATENT OFFICE.

JAMES H. ELLER, OF CANTON, OHIO.

## METAL ROOFING.

SPECIFICATION forming part of Letters Patent No. 336,098, dated February 16, 1886.

Application filed November 23, 1885. Serial No. 183,604. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES H. ELLER, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Metal Roofing; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon, in which—

Figure 1 is a perspective view showing the sheets attached to a portion of a roof and the different positions of said sheets in forming the seams or joints. Fig. 2 is a detached view of a single sheet, showing one edge of the same bent or tongued up, and manner of attaching the cleats or anchors to said sheet and to the roof-boards. Fig. 3 is a detached view of a single sheet, showing one edge of the same bent or tongued up ready to be placed in position for forming the seam or joint.

The present invention has relation to metal roofing; and its nature consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

In the drawings hereunto annexed similar letters of reference indicate corresponding parts in each figure.

In the accompanying drawings, A represents the sheets of the roof proper, and may be formed of any suitable and convenient size. The sheets are placed upon the roof, so that the wide bent or tongued-up portion of one sheet is in contact with the narrow bent or tongued-up portion of the adjoining sheet, as shown in Fig. 1.

The bent or tongued-up portion B is substantially of the form shown, and, as shown, is provided with the spaces C and the projections D, said spaces C being formed at suitable intervals and of any desired lengths. The cleats or anchors E are formed L-shaped, and the perpendicular portions of said cleats or anchors are provided with a bent or curved portion, F, which forms a hook and embraces the bent or tongued-up portion B, as shown in

the drawings, and for the purpose of holding the sheets and preventing the same from slipping downward the cleats may be placed as at Z, Fig. 1. The bent or tongued-up portion G extends a short distance above the projections D, as shown in Fig. 1, and is so arranged that the top or upper portion of said portion G can be folded over the projections D, as shown at X, Fig. 1, thereby embracing said projections D, as shown. When the fold thus formed, together with the projections D, is turned down or folded, as shown at X', Fig. 1, it embraces the top or upper portion of the cleats or anchors E, as well as the top or upper part of the bent or tongued-up portion B, thereby forming a seam or joint perfectly watertight, and at the same time leaving the cleats or anchors as originally adjusted. It will be seen that the spaces C are formed much longer than the cleats or anchors, so that the anchors can be properly adjusted to the roof-boards.

It will be seen that the sheets are shown transposed in Figs. 1 and 2, so as to better show the general construction and arrangement.

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

1. The sheet A, provided with the bent or tongued-up portion B, the spaces C, and the projections D, substantially as and for the purpose specified.

2. The combination of the bent or tongued-up portion B, provided with the spaces C and extensions D, of the cleats or anchors E, provided with the hooks F, of the portion B, bent or folded over the extensions D, and above the anchors E, and said fold finally bent over and embracing the top or upper part of the portion B, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JAMES H. ELLER.

Witnesses:

L. C. WISE,

JOSEPH FREASE.