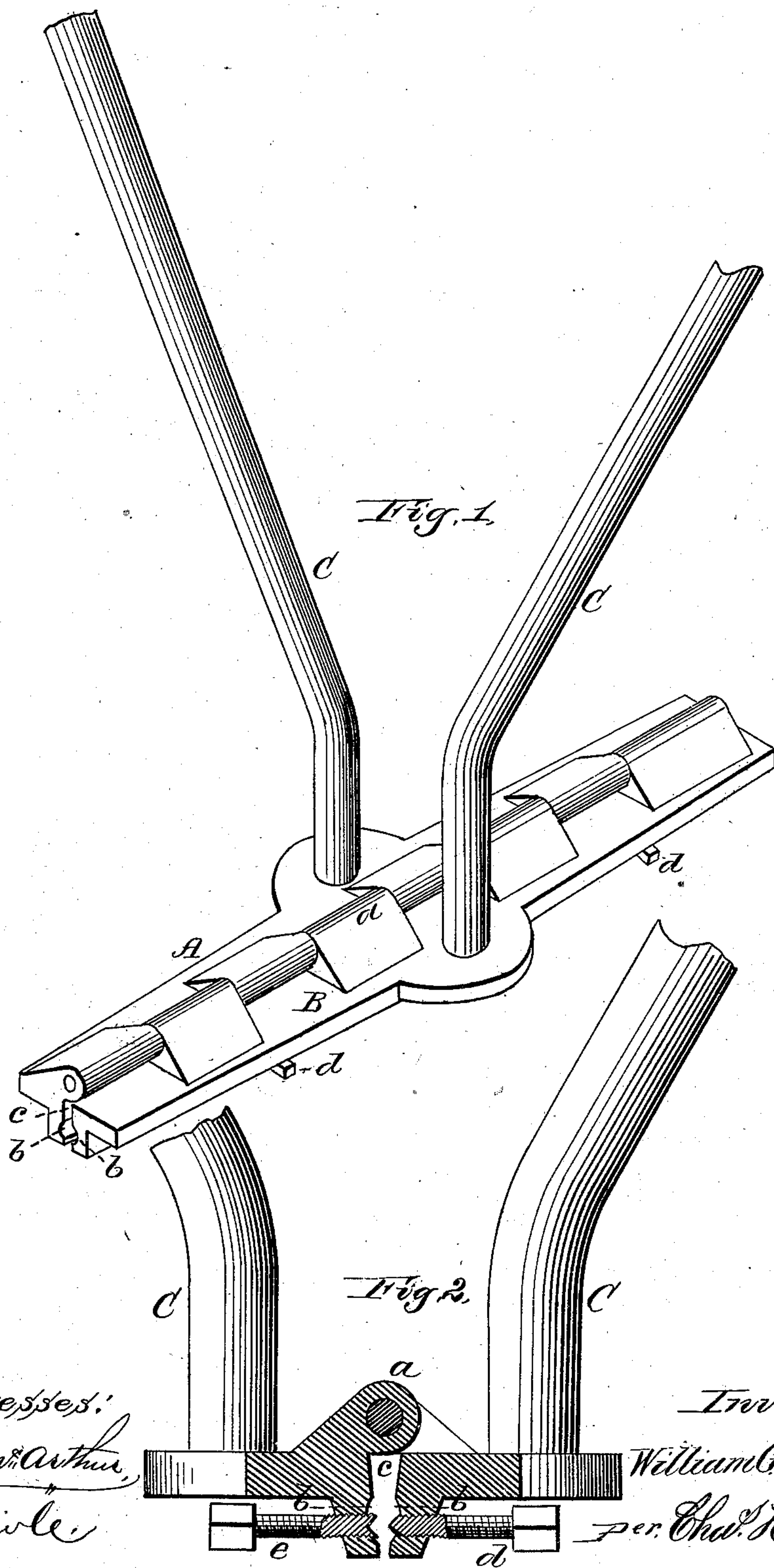


(Model.)

W. G. HYNDMAN.
Roofing Tool.

No. 242,778.

Patented June 14, 1881.



Witnesses:
H. C. McArthur,
H. K. Bowler.

Inventor:
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Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM G. HYNDMAN, OF CINCINNATI, OHIO.

ROOFING-TOOL.

SPECIFICATION forming part of Letters Patent No. 242,778, dated June 14, 1881.

Application filed March 30, 1881. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM G. HYNDMAN, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Roofing-Tools; 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.

Figure 1 of the drawings is a perspective view of my invention; and Fig. 2 an end view, partly in cross-section.

This invention has reference to certain new and useful improvements in tools for closing the seams of metallic roofing, and the object thereof is to provide a strong, durable, and practical tool that will possess great leverage-power in obtaining the pressure required to form a perfect seam, and also perforate or countersink it when so desired. These objects I attain by the construction substantially as shown in the drawings and hereinafter described.

In the accompanying drawings, A B represent the two jaws of the tool connected together by a continuous hinge, *a*, extending the entire length of the jaws from end to end, thus preventing the springing of the ends and insuring a close and perfect seam throughout the length of sheet metal located between the jaws. Each jaw is provided with a lever-handle, C, which are pressed outward or from each other to bring the jaws against the seam in closing it. This gives much greater power than when bringing the handles in a direction toward each other, as in the ordinary roofer's tongs.

When using the tool it should be understood that the person stands directly over it and presses down upon each handle with his whole weight forcing them apart, thereby securing an amount of pressure not procurable when the handles are pressed together. The inner side of each jaw has a longitudinal groove, *b*, so that when the lower edge of said jaws are brought tightly against the seam to press it together the grooves prevent the closing of the countersink or bruising of the rivets, as the case may be.

The jaws A B, above the grooves *b* and upon their inner faces, are constructed in such manner that when the lower edges of the jaws are brought in contact with the seam that portion of said jaws next the hinge will form a space, *c*, around the upper edge of the seam. This enables the lower part of the seam to be perfectly formed, while the upper portion or edge is left rounding, the space *c* preventing the squeezing of the metal too close which would crack the iron, thus enabling me to use an iron which would, if closed in a seam by a pair of the ordinary tinner's or roofer's tongs or hammered together in the usual manner, crack and break.

The jaws A B are provided with means for countersinking the seam, or, when rivets or other like fastenings are used, as a punch and die.

To illustrate my invention I have shown the jaw A having suitably connected thereto one or more punches, *d*, and the jaw B one or more countersinks, *e*, which may be removed, and the punch and die substituted, when desired, to perforate the seam.

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

1. The jaws A B, having lever-handles C, said jaws having upon their inner sides longitudinal grooves *b*, to prevent the closing of the countersink or bruising of the rivets, substantially as and for the purpose described.

2. The jaws A B, arranged transversely to the handles C, and provided with means, substantially as shown and described, for perforating or countersinking the seam, for the purpose specified.

3. The jaws A B, provided with suitable handles and having detachably connected thereto devices, substantially as described, for perforating or countersinking the seam of sheet-metal roofing, for the purpose set forth.

4. The jaws A B, provided with means, substantially as described, for perforating or countersinking the seam, and handles C, arranged as shown and described, to press from each other in closing the jaws against the metal seam, substantially as and for the purpose specified.

5. The jaws A B, provided with suitable

handles C, said jaws having two or more punches or similar devices, as shown and described, for perforating or countersinking the seam, for the purpose set forth.

5 6. The jaws A B, having longitudinal grooves *b*, and punches or points *d*, and countersinks *e*, substantially as and for the purpose set forth.

7. The jaws A B, having lever-handles C, and connected together by a continuous hinge,
10 *a*, each jaw having a longitudinal groove, *b*, and constructed above the groove, as shown

and described, whereby a space, *c*, is left around the upper edge of the seam when the jaws are brought together against it, substantially as and for the purpose described. 15

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

WM. G. HYNDMAN.

Witnesses:

JAMES LARKIN,

FRED. A. JOHNSON.