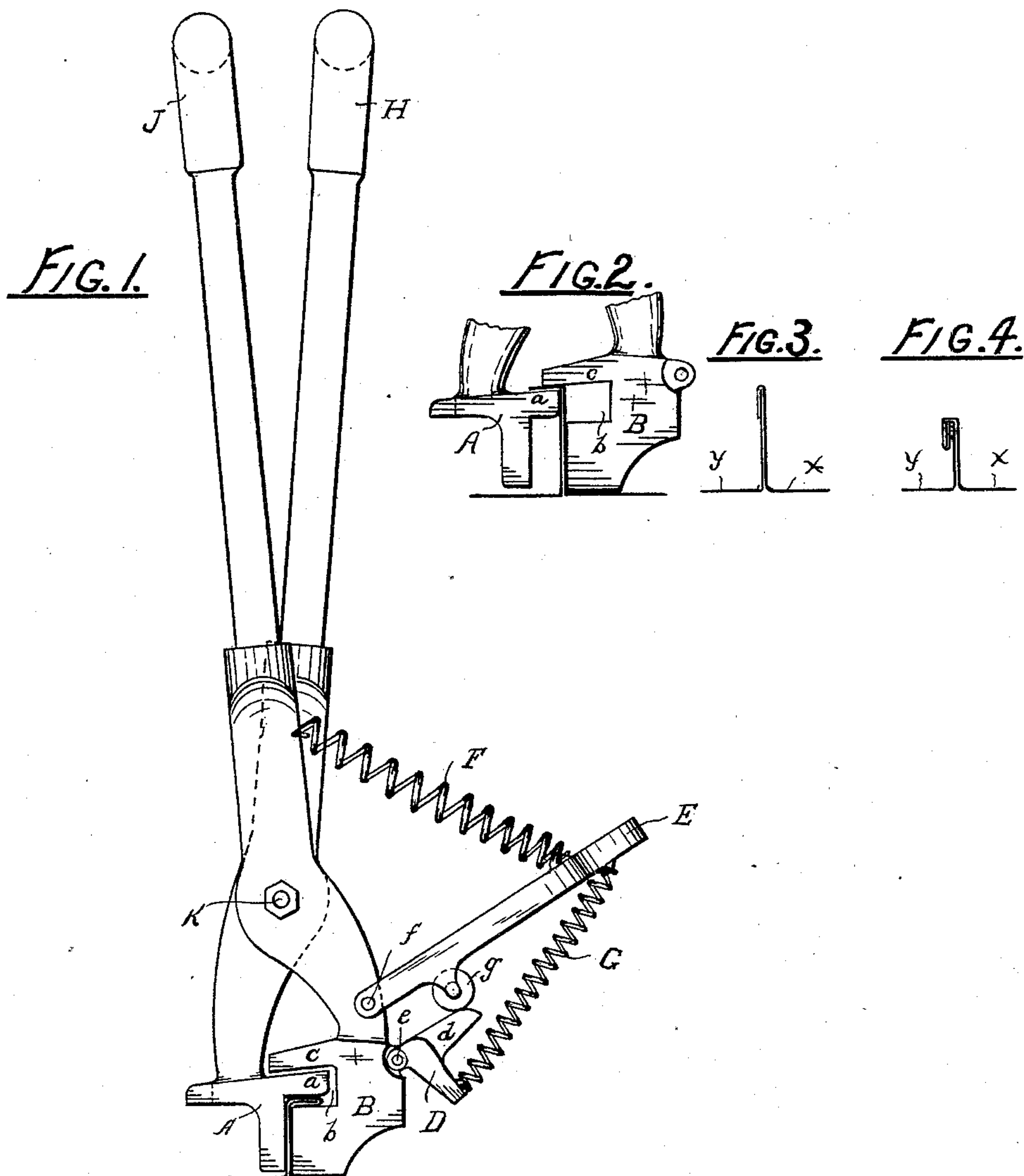


(No Model.)

P. S. MYERS.  
DOUBLE ROOF SEAMING TOOL.

No. 421,187.

Patented Feb. 11, 1890.



WITNESSES

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# UNITED STATES PATENT OFFICE.

PHARES S. MYERS, OF READING, PENNSYLVANIA, ASSIGNOR OF PART TO  
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OF SAME PLACE.

## DOUBLE-ROOF-SEAMING TOOL.

SPECIFICATION forming part of Letters Patent No. 421,187, dated February 11, 1890.

Application filed June 8, 1889. Serial No. 313,564. (No model.)

*To all whom it may concern:*

Be it known that I, PHARES S. MYERS, a citizen of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Double-Roof-Seaming Tools; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of seaming-tools which is adapted for tin-roofing; and the main object is to provide a single tool by means of which a double lock-seam may be made without requiring the use of removable parts.

My improved tool is fully set forth herein, and the novel features are specifically brought out in the claims.

Figure 1 is a full elevation of my improved tool, showing the position of the jaws in making the second bend for the double seam. Fig. 2 shows the position of the jaws in making the first bend. Fig. 3 shows the first seam after clinching. Fig. 4 shows the complete double seam.

The jaws A and B are pivoted together at K, and are opened and closed by means of handles H and J. A top lip *a* projects from the face of jaw A at about right angles to it, and when the jaws are closed loosely enters a corresponding recess *b* in the face of jaw B. The overhanging lip *c* of jaw B, which forms the roof of the recess, projects over the top of the jaw A beyond the face of the latter when the jaws are closed, as shown in Fig. 1.

To the outside face of jaw B is hinged at *e* the clinching-bar D, which is provided with a lug *d*, upon the upper face of which rides a roller *g*, which is journaled intermediately to a foot-lever E, hinged to the jaw B above the lip *c*. A spring G connects the

bar D with lever E, and both are normally raised, as indicated in Fig. 1, by means of a spring F.

The operation is as follows: The upturned edges of adjacent sheets *x* and *y* are spanned by the jaws of the tool, which are opened wide to admit the taller strip to pass the outer edge of the overhanging lip *c* when the base of jaw B rests upon the flat sheet *x*. As the jaws are closed the overhanging lip *c* bends the taller strip over the top of jaw A and the other strip, as indicated in Fig. 2, and the first seam or lock, as shown in Fig. 3, is completed by means of the clinching-bar D, which is operated by the treadle E, the roller *g* riding upon the lug *d* as the bar is closed against the jaw B. The second bend is made, as indicated in Fig. 1, by the lip *a* bending the single seam over into the recess *b* until the two upturned edges of the sheets are pinched together by the jaws A B, and the double lock is finished by repeating the operation of the clinching-bar D, as already described.

Heretofore the double seam described has been made by the use of two similar tools having different height of jaws, and also by tools having removable pieces by which to change the height of the bending-lip from the base of the jaws. My improved construction permits both bends to be made with a single tool without change or addition, thus avoiding both the duplication of tools and the inconvenience of changing.

What I claim is—

1. A roof-seaming tool consisting of pivoted jaws A and B, with operating-handles, the jaw B having a recess *b*, extending inwardly from the clamping-face, and an overhanging lip *c*, extending beyond said clamping-face, and the jaw A having a lip *a* projecting from its clamping-face and adapted to enter said recess, whereby a standing seam may be bent consecutively in opposite directions, all arranged to operate substantially as set forth.

2. In a roof-seaming tool, the combination

of pivoted jaws A and B, having operating-le-  
vers H and J, with bar D and lever E, sepa-  
rately hinged to said jaw B, substantially as  
described, said lever E being connected with  
5 bar D by a spring C and with the operating-  
lever J by a spring F, all substantially as set  
forth.

In testimony whereof I affix my signature in  
presence of two witnesses.

PHARES S. MYERS.

Witnesses:

GEO. D. STITZEL,  
F. PIERCE HUMMEL.