

ORRIN W. BURRITT,

Improvement in Tin-Roofing Machines.

No. 120,851.

Patented Nov. 14, 1871.

Fig. 1.

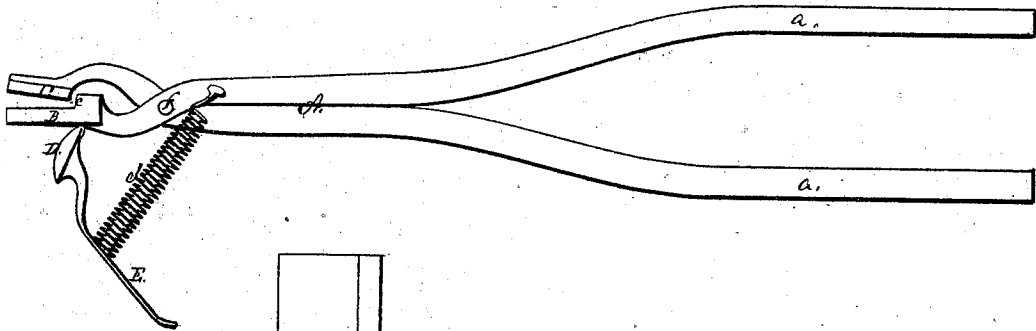


Fig. 2.

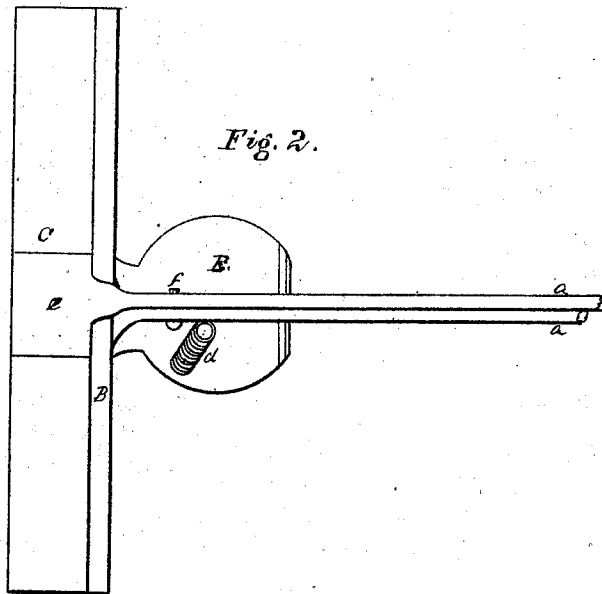
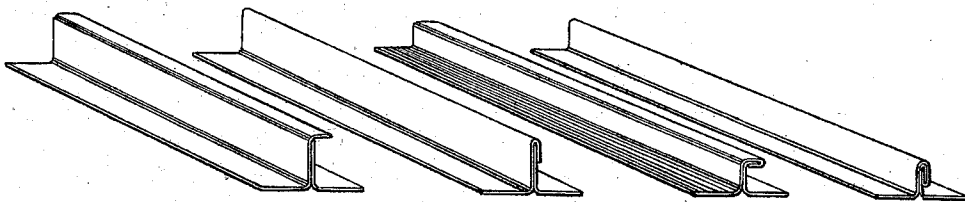


Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.



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UNITED STATES PATENT OFFICE.

ORRIN W. BURRITT, OF WEEDSPORT, NEW YORK.

IMPROVEMENT IN TIN-ROOFING MACHINES.

Specification forming part of Letters Patent No. 120,851, dated November 14, 1871.

To all whom it may concern:

Be it known that I, ORRIN W. BURRITT, of Weedsport, in the county of Cayuga and State of New York, have invented a certain new and useful Improvement in a Tool for Seaming or Double-Locking the Joints of Tin or other sheet-metal roofing; and the following is a specification thereof.

Referring to the drawing, Figure 1 represents an edge view of my combined hand-and-foot-power lever; double-seamed, for locking the joints of metal roofing. Fig. 2 shows a side view of the same. Figs. 3, 4, 5, and 6 show perspective views of the different stages of the standing lock as made by my improved tool.

The object of my invention is to make standing lock-joints in roofing that will be water-tight without soldering, and at the same time be put on more rapidly with less labor and greater ease to the workmen. My invention consists in the construction of a clamping-tool having jaws attached to long-handled levers, and a wing-jaw attached to one of the other jaws, the same being provided with a foot-lever and spring for folding down the turned edge and completing the standing lock-joints.

To enable others to make and use my improved tool, I will describe it more in detail, referring to the drawing and to the letters marked thereon.

The clamping-tool A is constructed with long handles *a a*, so formed and attached together by a rivet, *f*, at a suitable distance from the bars B and C as to give a strong lever power by which the two strips of sheet metal are brought close together, and at the same time turns the widest edge over the other at a right angle, as seen in Fig. 3. The jaws or clamping-bars B and C are made of any required length—two feet, more or less—and are firmly secured to the levers *a a*. One of the jaws, B, is provided with a projection, C, which overlaps the corresponding bar or jaw C, so that when the lever-power is applied to the standing joint the sheet metal is turned over at a right angle by the two jaws, as above described.

At this stage of the work the tool is reversed and the outside of the jaw B is placed against the side of the standing metal. The curved bar D, which is hinged to the jaw B on the outside, and is provided with a foot-plate, E, and a spring *d*, the plate E forming a lever to be operated by the foot, for bending over and closing down the lap of the metal, as seen in Fig. 4. This process completes a single lock.

For double-locking I then take another tool, constructed in the same manner, only the jaws B and C are made enough narrower to turn the lock over again at a right angle, as seen in Fig. 5, when the tool is again placed against the standing lock, and the foot-power applied to the lever E, and the double lock is completed, as shown in Fig. 6.

It will readily be seen that in putting on sheet-metal roofing with my tool, as above described, the workmen can stand erect to close up the joint and bend the metal to form the lock, and that he has the advantage of applying the foot to a sufficient lever power to fold over and close the lock firmly together, which will not be crimped, and is more uniformly tight and smooth in appearance than the best work that is done by hand and mallet. Another great advantage is that more than double the amount of roofing can be put on in a given time by the same number of hands than by the ordinary method.

What I claim as my invention, and desire to secure by Letters Patent, is—

The clamping-tool A provided with jaws B and C with projection *c*, in combination with the hinged bar D, plate foot-lever E, and spring *d*, as constructed, and arranged to operate substantially as herein shown and described, for the purposes set forth.

In testimony whereof I hereunto subscribe my name.

ORRIN W. BURRITT.

Witnesses:

ALBEN PARR,
WM. C. BELL.

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