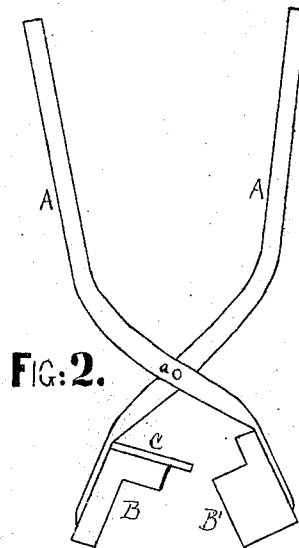
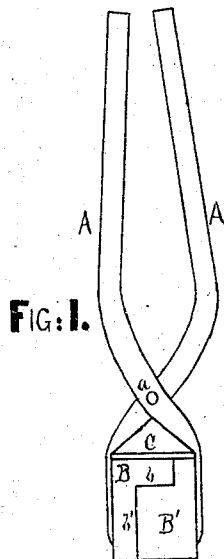


J. D. James, Jr.,

Tin Workers Tongs.

No. 100413.

Patented Mar. 1, 1870.



WITNESSES.

Edwin James.

Alf. Adams and Jr.

INVENTOR.

J. Dawson James, Jr.

per J. E. F. Holmes

Attorney.

United States Patent Office.

JOHN DAWSON JAMES, JR., OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR TO HIMSELF, ADOLF BODE, AND JACOB D. C. OUTWATER, OF NEWARK, NEW JERSEY.

Letters Patent No. 100,413, dated March 1, 1870.

IMPROVEMENT IN TIN-WORKERS' TONGS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN DAWSON JAMES, JR., of Washington city, and District of Columbia, have invented certain new and useful Improvements in Tin-Workers' Tongs; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, making part of this specification, in which—

Figure 1 is a view of the tongs closed.

Figure 2 is a view of the tongs opened.

The object of my present invention, as well as the seam-joint swage or hammer for which I have applied for a patent, the application bearing even date herewith, is to facilitate the operation of tin roofing, dispensing as it does with the tedious work with grooving-iron and mallet, as now practiced.

The nature of my invention consists in so forming the jaws of the tongs that when they are applied to the seams of the sheets of tin or other roofing material, the same having been previously made or thrown up vertically by the ordinary tongs now in general use, the projecting portion of the longest seam shall be forced down horizontally with the roof, or at right angles to the short seam and the main section of the long seam, and in the desired and proper position to be pressed down by the mallet, or for the action of my improved swage, which forms the seam-joint.

To enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation.

A A are the levers or handles, and are pivoted at *a*.
B B' are the jaws, and are connected to the levers

A A in the usual manner. These tongs may be cast or made in any other ordinary manner, and of any suitable metal.

C is a guide or check-plate, and is cast with the jaw B, or otherwise attached thereto. This plate C acts as a projecting lip or flange on the jaw, serving, when the tongs are in use, to prevent their coming in contact with the roof, in order that they may properly work the seam, and to assist in forming the double seam-joint. The form of these jaws is clearly shown in the drawing, B being recessed, and B' having a solid projecting head or face, the contour of which corresponds exactly with the recess, so that when the jaws are brought together the head fits exactly in the recess, only leaving a space between the two sufficient for the thickness of the metal to be worked. When the tongs are applied to the metal seams, it gives to the same by its pressure exactly the shape or form shown in outline by *b b'*.

Having thus fully described my invention,

What I claim therein as new, and desire to secure by Letters Patent of the United States, is—

The levers A A, jaws B B', and guide or check-plate C, when the same are constructed, combined, and arranged as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

J. D. JAMES, Jr.

Witnesses:

EDWIN JAMES,
FRED. KOONES.