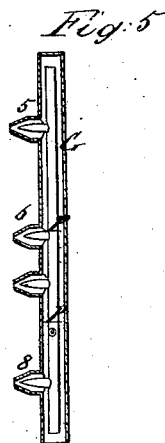
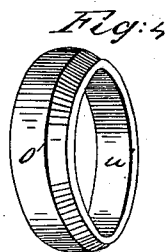
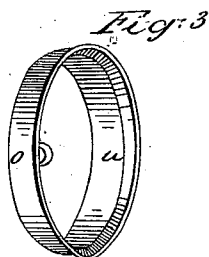
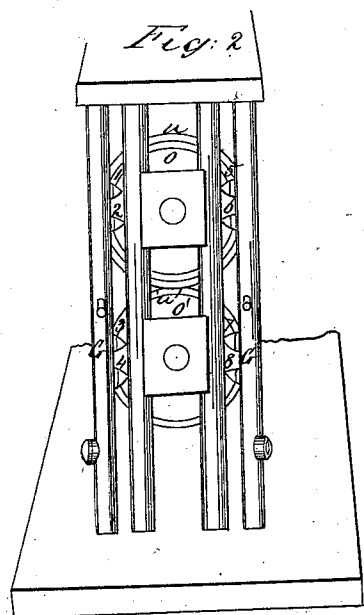
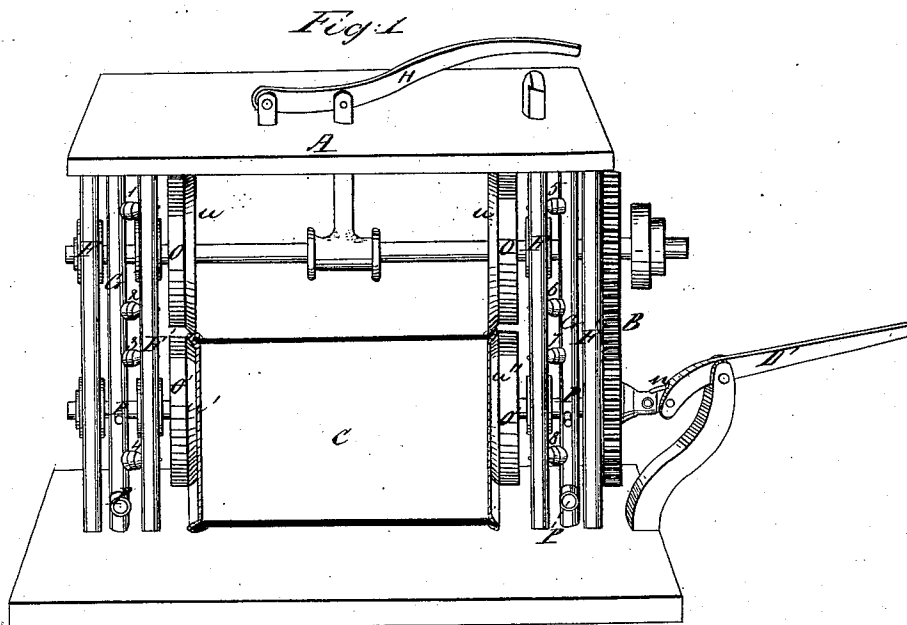


*J. Le Comte,
Soldering Machine,*

N^o 100,160.

Patented Feb. 22, 1870.



Witnesses

*James P. McLean
George L. Carlisle*

Inventor

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United States Patent Office.

JOSEPH LE COMTE, OF BROOKLYN, NEW YORK.

Letters Patent No. 100,160, dated February 22, 1870.

IMPROVEMENT IN SOLDERING-MACHINE.

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, JOSEPH LE COMTE, of the city of Brooklyn, in the county of Kings, and State of New York, have invented new and useful Improvements in Machinery for Crimping and Uniting Sheet-Metal Joints by Heat and Pressure; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings which are lettered to correspond with and form a part of the specification.

To enable the public to understand the nature of my invention, and those who are skilled in the mechanic arts to construct and operate the same, I will describe it as follows, to wit:

Figure 1 is a front elevation of my machine for crimping and uniting the joints of both ends of a cylindrical tin can by heat and pressure.

F F' is the frame-work.

D' is the pressure-lever.

B is the cog gearing which operates the hollow cylindrical chucks or formers *o o o' o'* which are provided with beveled bearings *u u u' u''*, or otherwise, to suit the top and bottom seams of the can C.

The beveled hollow mandrel or chuck *u''* is horizontally adjusted by means of the lever D' and eccentric joint *n*, to allow the can to be removed from the machine A after completion.

G G are vertical gas-pipes having horizontal jets 1, 2, 3, 4, 5, 6, 7, 8, also internal air-pipes P P, with corresponding jets, as shown at fig. 5.

The lever H is employed to raise or lower the top rollers *u u* which are moved vertically between the standards *s s*, fig. 2.

Figure 2 is a vertical end view of my apparatus showing two sets of gas-blast jets 1, 2, 3, 4 applied to each inner side of the hollow mandrels or formers *u u u' u''*, in lieu of employing but one set of burners at the centre of the hollow chucks, as shown at fig. 1.

Figure 3 is a perspective drawing of the upper hollow rollers or formers *o o*.

Figure 4 is a perspective drawing of the lower hollow rollers or formers *o' o''*.

Figure 5 is a vertical section of my gas-blast pipes showing the gas-jets 5, 6, 7, 8, and inner air-jets with air-pipe P P.

Hence, the novelty of my apparatus does not consist in the use of heat and pressure as employed and set forth in my Patent of January 12, 1869; but it does consist in the construction of a machine A that will crimp and solder both ends of a tin or other sheet-metal can at the same time by means of a particular arrangement of gas and atmospheric air tweezers or jets so as to distribute the flame or hot-blast therefrom into or upon the cylindrical rollers or mandrels *o o o' o'*, as shown in the drawings.

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

1. The machine A, with hollow or solid forming rollers or mandrels *o o o' o'*, and suitable bearings *u u u' u''*, levers D and D', with joints *n*, in combination with blast-pipes G G, arranged for the purpose set forth.

2. The arrangement of the blast-pipes G G and P P, with jets or tweezers 1, 2, 3, 4, 5, 6, 7, 8, for the purpose of soldering both ends of a metallic can C or other vessel at the same time, in combination with the machinery herein described and set forth.

3. The cylindrical chucks or formers *o o o' o'*, provided with bearings *u u u' u''*, levers D D', eccentric joint *n*, in combination with gas-pipes G G, and internal air-pipes P P, with jets arranged between the standards S S, as described for the purpose set forth.

In testimony whereof I hereunto subscribe my name in the presence of two witnesses.

JOSEPH LE COMTE.

Witnesses:

JAMES P. McLEAN,
GEO. L. CARLISLE.