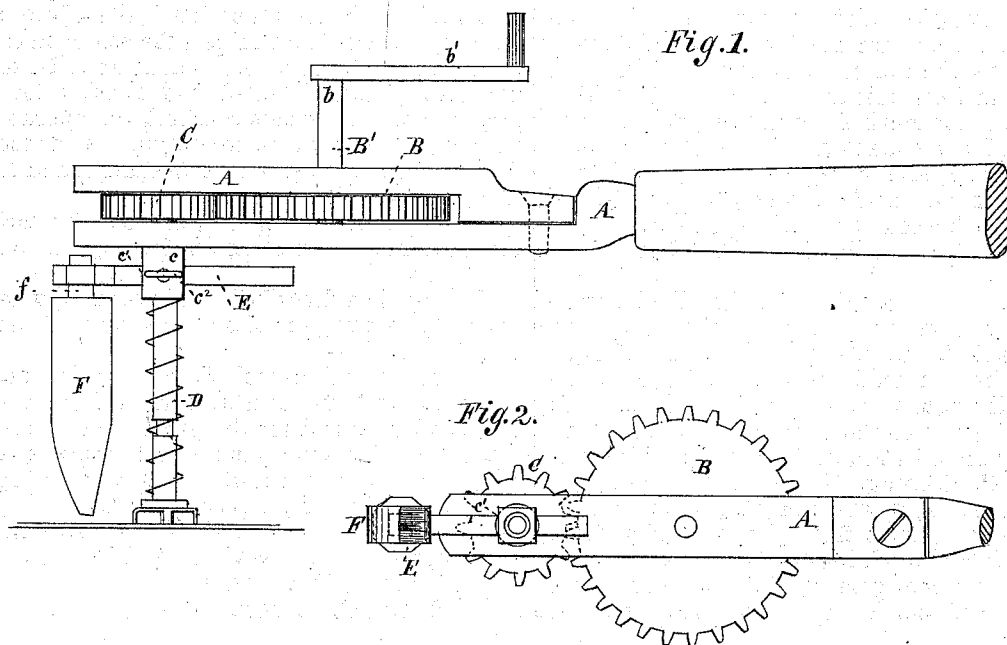


JOHN A. TILLERY & SAMUEL A. EWALT.

Improvement in Soldering-Tool.

No. 126,852.

Patented May 14, 1872.



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UNITED STATES PATENT OFFICE.

JOHN A. TILLERY AND SAMUEL A. EWALT, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN SOLDERING-TOOLS.

Specification forming part of Letters Patent No. 126,852, dated May 14, 1872.

Specification describing an Improvement in Soldering-Tools, invented by JOHN A. TILLERY and SAMUEL A. EWALT, of Baltimore, in the county of Baltimore and State of Maryland.

The invention relates to that class of soldering-tools which are usually rotated about the cap by twirling or carrying it around with the hand; and consists in combining therewith a simple mechanism for operating it more rapidly and conveniently. The invention, however, mainly and more particularly consists in an arc-shaped soldering-tool, adapted to all the various sized cans and caps used.

Figure 1 is a side view. Fig. 2 is a front view.

A represents a bifurcated handle, between whose prongs are journaled the two spur-wheels B C. On the prolongation *b* of shaft B is placed a hand-crank, *b'*, while on a prolongation of the shaft *c* of wheel C is fastened a yielding tubular holder or rest, D. This shaft *c* is perforated at *c'*, and provided with a set-screw, *c''*. Through the hole *c'* fits one end of the tool-stock, E, which may be set out radially at any distance from the axis of shaft *c*. The other end of this tool-stock is provided with an eye or angular aperture which receives shank *f* of tool F. This tool has its lower

edge formed on a small arc of a circle, or on a mere point.

The mode of operation is as follows: The rest D is placed upon the middle of cap and held down with one hand under yielding pressure, while with the other hand the operator turns the crank *b'* and adjusts the solder in the cavity about the cap. As soon as an order for one size of cans is filled, and another for a larger or smaller size is reached, the operator simply loosens the set-screw *c''*, moves the tool further from or nearer to the shaft *c*, and he is again ready for work.

Instead of having a tool, as now, for each size of cans, one will answer for any number whatever.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The soldering-tool F, constructed and combined with an adjustable stock, E, and rotary shaft *c*, as and for the purpose described.
2. The bifurcated handle and crank-gear mechanism, combined with tool and spring-rest, as and for the purpose set forth.

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