

S. D. STIFFEY.

Soldering Tools.

No. 134,403.

Patented Dec. 31, 1872.

Fig. 1.

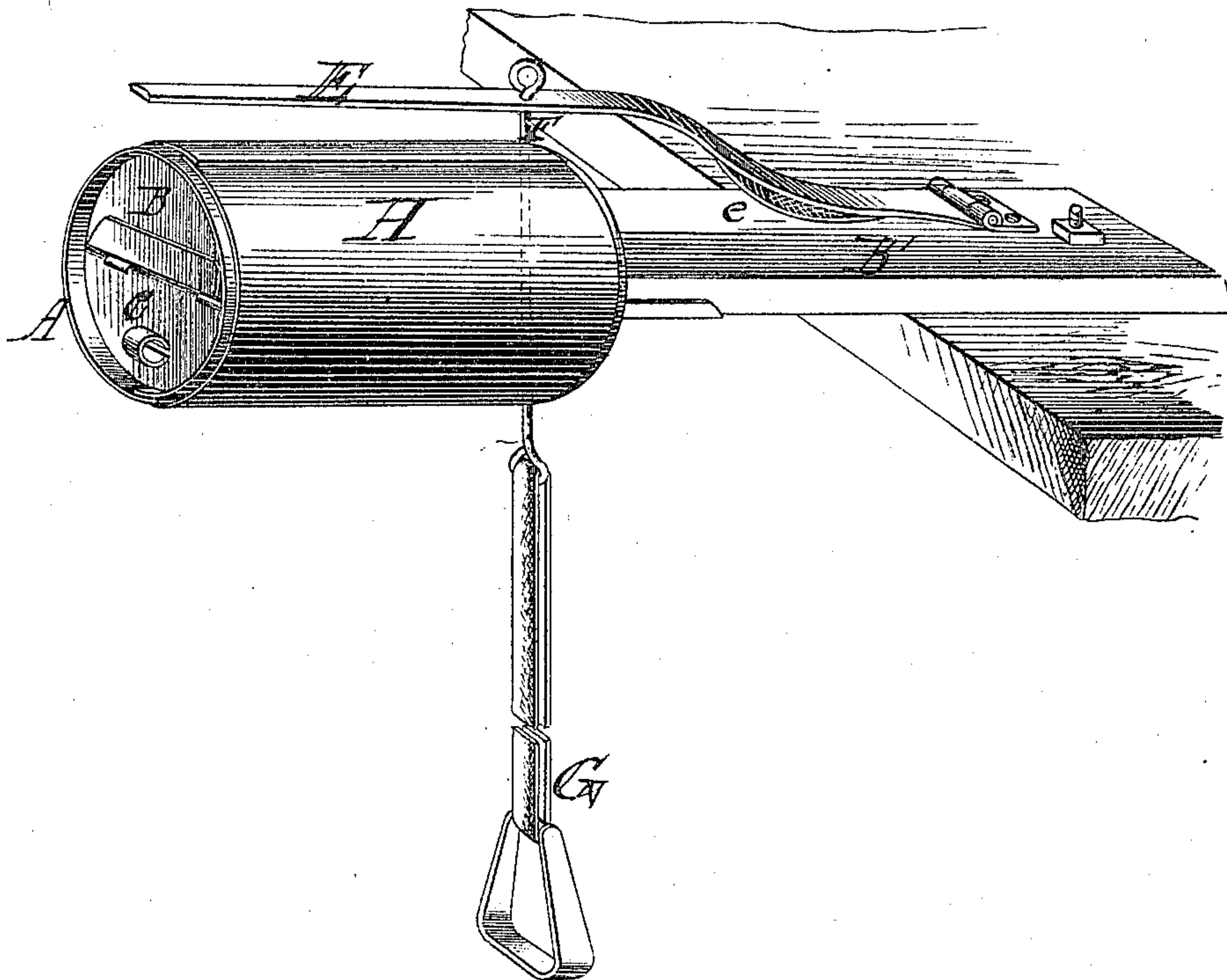
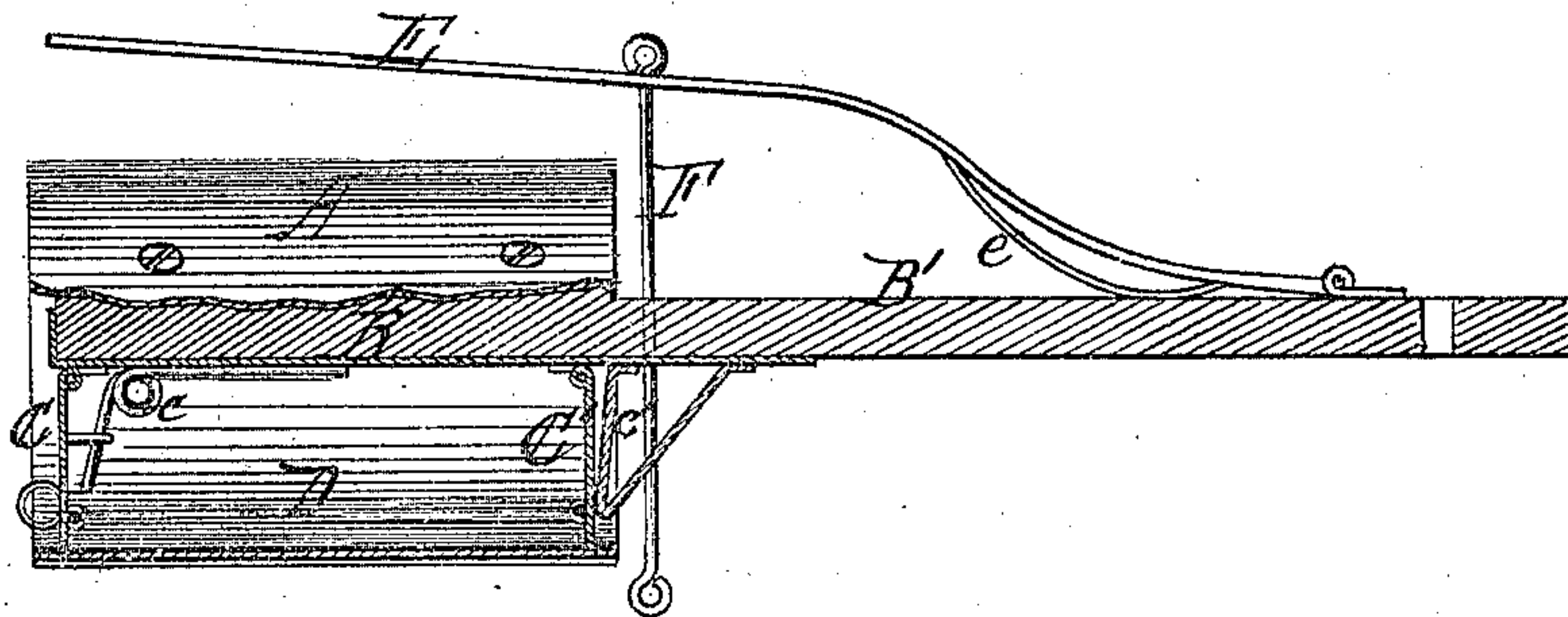


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN SOLDERING-TOOLS.

Specification forming part of Letters Patent No. 134,403, dated December 31, 1872.

*To all whom it may concern:*

Be it known that I, SAMUEL DOUGLAS STIFFEY, tinner, of Blairsville, in the county of Indiana and in the State of Pennsylvania, have invented a new and useful Improvement in Devices for Soldering Fruit and other Cans; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making part of this specification, in which—

Figure 1 is a perspective view of my improved implement; and Fig. 2 is a vertical longitudinal section.

The same letters of reference are employed in both figures in the designation of identical parts.

This invention is intended to provide tanners with a convenient implement for assisting in soldering the seams of tin cans; and it consists of a mandrel for the reception of the skelp, and a clamp, operated by the foot of the workman, to hold the skelp in the proper position upon the mandrel during the soldering process, thus leaving both hands of the workman free to perform the latter.

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

For circular cans a cylindrical spring, A, is used, which is preferably made expansible, so that in its contracted condition the tin skelp may readily be slipped upon or removed from it. In the example illustrated the said mandrel consists of a coiled spring, composed of a single ring, with the ends just lapping, as best seen in Fig. 1. The upper portion of this spring is secured to a semi-cylindrical core, B, of wood or other suitable material, terminating in a flat shank, B', at one end, for attachment to the work-bench. The spring projects at the outer end a little distance beyond the end of the core, which is provided, near each extremity, with semicircular hinged plates,

marked, respectively, C and C', and connected together by a coupling-rod, D, for simultaneous operation. These plates are held in position perpendicular to the axis of the mandrel by means of the spring c and stop c', and serve to keep said mandrel expanded to its proper size while the skelp is upon it being soldered. On changing the plates from a vertical position by pulling on the knob or ring on plate C the spring contracts, making it easy to slip on the skelp or to remove the jointed cylinder. The clamping-bar E is hinged at the rear end to the shank B', and overhangs the mandrel, being borne up by a spring, e, if preferred. A rod, F, is attached to the clamping-bar somewhere in rear of the mandrel, and passing through a hole in the shank, which serves to guide its movements, terminates in a strap and stirrup, G; or it may be connected to a treadle. In either case it is to be operated by the foot of the workman, when the bar E is to be borne down to clamp the skelp to the mandrel. H represents a tin skelp slipped upon the mandrel.

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

1. A tinner's implement, composed of a coiled spring, A, hinged plates C C', internal spring c, and clamping-bar E with spring e, substantially as described.

2. The combination of the coiled spring A, core B, plates C C', spring c, and stop c', substantially as specified.

3. The herein-described tanners' implement, composed of the coiled spring A, adjustable plates C C', core and shank B B', internal spring c, clamping-bar E with spring e, and a treadle, or its equivalent, for operating the latter, substantially as specified.

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Witnesses:

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