D. Hagerty,

Casting Tinners' Solder.

No. 58,408. Patented Oct. 2, 1866.

Fig. 1.

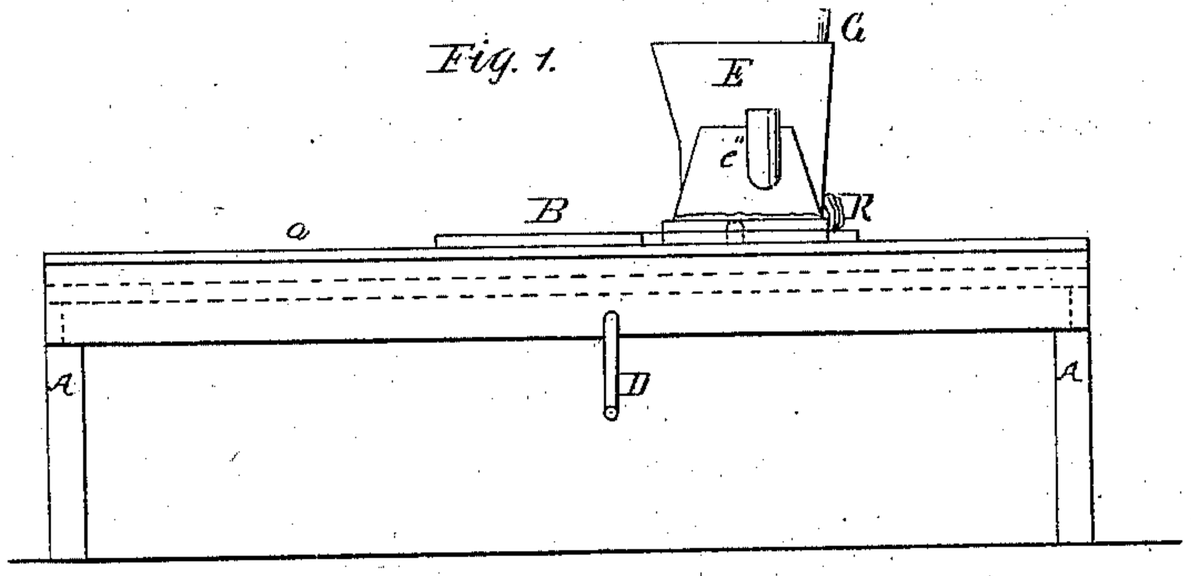


Fig. 2.

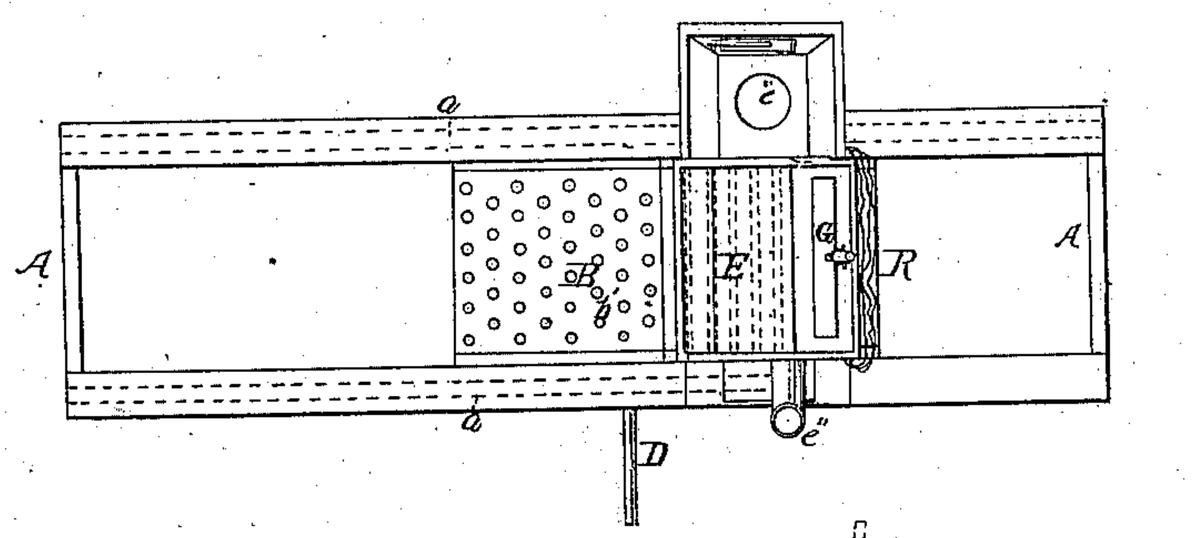
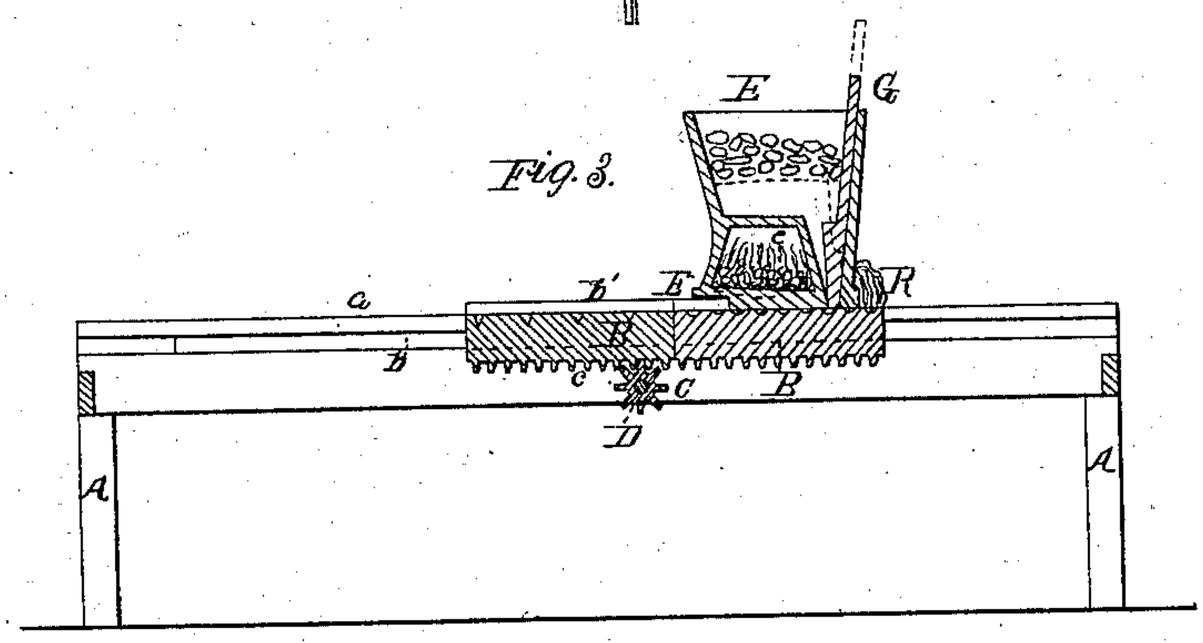


Fig. 3.



Witnesses.
Theodore Lang.
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by his attorney.
S. S. Fahnestock.

UNITED STATES PATENT OFFICE.

D. HAGERTY, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN MELTING AND MOLDING TINNERS' SOLDER.

Specification forming part of Letters Patent No. **58,408,** dated October 2, 1866.

To all whom it may concern:

Be it known that I, DANIEL HAGERTY, of the city and county of Baltimore, in the State of Maryland, have invented a new and Improved Useful Machine for Melting, Molding, or Casting Tinners' Solder or other Soft Metals; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, like parts being represented by like letters in the several figures.

The nature of my invention is to facilitate and cheapen the manufacture of tinners' solder or castings of any soft metals, varied, of course.

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

In the drawings, Figure 1 represents a side view of my machine; Fig. 2, a top view, and Fig. 3 a central longitudinal section.

A is a metal or other suitable stand or table, something like a lathe-bench, having two top pieces, *a a*, which, with the vertical sides of the table, form grooves *b b*. In these grooves are placed plates B, having on their upper faces cavities *b'*, or the molds of any desirable shape—say for bars, &c. The under sides of these mold-plates have a rack or teeth, *c*, cast or secured to them, and a cog-wheel, C, engages with these teeth. The wheel C is operated by a crank, D. In this way a continuous number of plates may be kept passing through the machine under the reservoir of molten metal, fed in at one end and carried off at the other. E represents this reservoir, which is made removable, and which is sufficiently secure by sitting upon two pins fixed in top pieces, *a a*, there being suitable holes in the bottom plate of E. This reservoir has a heating-furnace, *e*, constructed in the lower part, the fuel being put in at *e'*, and the smoke escaping at *e''*. It is important the bottom part of E and the top faces of plates B should make a nice fit or joint with each other, allowing, however, the plates to be moved along underneath easily.

G is a sliding gate properly fitted and guided inside of the reservoir. (Shown in a raised position by red lines, Fig. 3.)

The raised height of gate must be regulated so as to afford a proper supply of metal to the passing molds below.

It will thus be seen that by keeping up a constant fire in furnace *e* and a supply of metal in reservoir E, and a large number of plates or molds, the casting can be carried on with great ease and rapidity, as very little time will be required for each casting to cool, so as to empty the mold and feed it in again at the opposite end to where it was taken off.

To the bottom end of E, I secure a wiping-rag, R, to smooth off the face of the mold-plates after they shall have passed under the reservoir.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

The combination of reservoir E, with its interior furnace, *e*, and gate G, mold-plates B B, toothed wheel C, and table A, constructed and arranged in the manner substantially as shown and described, and for the purpose set forth.

D. HAGERTY.

Witnesses:

JAS. HYDE,
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