

LOUIS McMURRAY.

Improvement in Heating-Plates for Heating Soldering-Tools.

No. 127,084.

Patented May 21, 1872.

Fig 1.

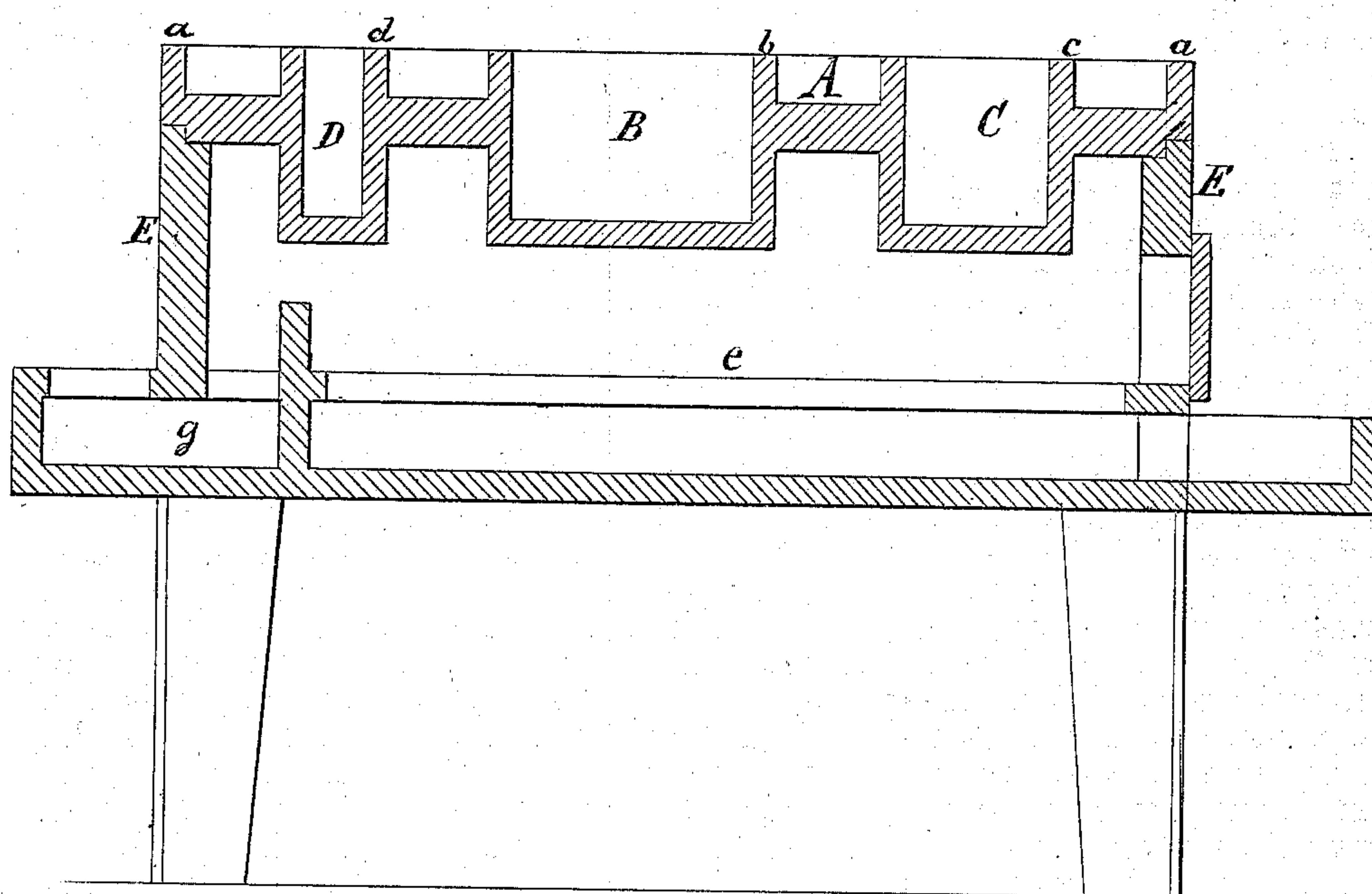
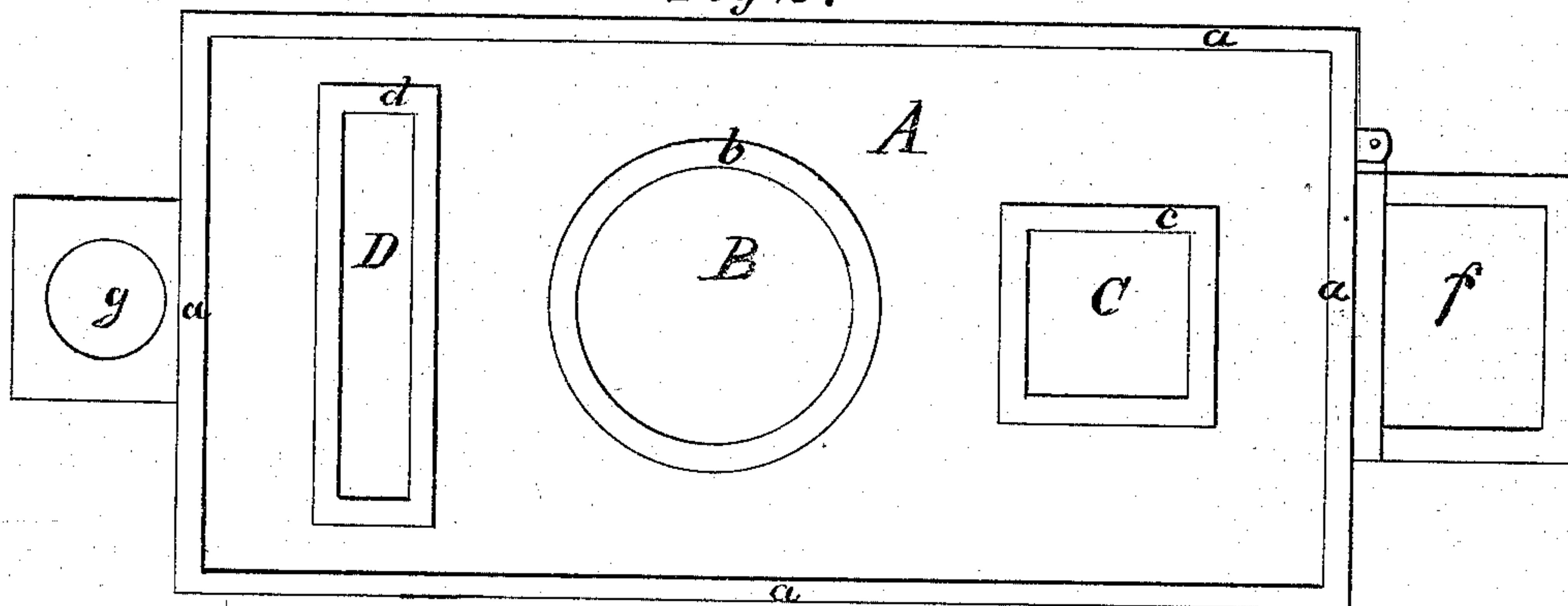


Fig 2.



Witnesses:
Jas E. Flynn

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UNITED STATES PATENT OFFICE.

LOUIS McMURRAY, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN HEATING-PLATES FOR HEATING SOLDERING-TOOLS.

Specification forming part of Letters Patent No. 127,084, dated May 21, 1872.

To whom it may concern:

Be it known that I, LOUIS McMURRAY, of the city and county of Baltimore and State of Maryland, have invented certain new and useful Improvements in Heaters for Soldering Tools, of which the following is a specification.

It has been usual heretofore to heat soldering-irons in fire-pots provided with lateral openings, through which the irons might be inserted into the burning coal or other fuel within the pots. In some cases, also, pockets for the irons have been formed in the sides of the pots, so that the heating might be effected without direct contact of the tools with the fuel.

The use of the ordinary fire-pots, such as above referred to, is attended with many disadvantages and draw-backs. Not only do they occupy much room, but there is a great waste of fuel, and excessive heat is produced in the room where the pots are used, which gives rise to much discomfort; and, again, an experienced workman is needed with these pots, in order to keep the tools in proper condition and prevent their being injured. It is my object to remedy these difficulties and to produce a heater for soldering-tools which will occupy but little space, will give out comparatively little heat, and which alone will serve in place of a large number of independent fire-pots, such as heretofore used. To this end, I provide a plate made, preferably, of cast-iron, formed with sockets to receive the tools, and coated on its top with a layer of plaster of Paris or other non-conducting material, which covers the whole of the plate excepting the tool-holding sockets, for the purpose of preventing the excessive radiation of heat from the plate which would otherwise take place.

In the accompanying drawing, Fig. 1 is a vertical longitudinal section of my improved heating-plate shown as applied to an ordinary or suitable furnace. Fig. 2 is a plan view of said plate.

A is a plate, preferably made of cast metal,

and shaped to fit on a furnace, stove, or other heating appliance. It is provided with a rim, *a*, around its edge, and with sockets or receptacles B C D, of any desired number, and of a shape corresponding to that of the tools which they are to receive. These sockets have their sides continued up above the face of plate A as high as the outer rim *a*, as shown at *b c d*, thus forming on top of the plate A a shallow basin or recess to be filled up with plaster of Paris or other non-conducting material, which thus covers the whole of the plate A, except at the points where the tool-sockets are formed. The plate is set on top of a stove or furnace, E, of ordinary or suitable construction, of which *g* is the smoke-channel, *f* the ash-pit, and *e* the grate. The soldering-tools for which this plate is mainly designed have a cylindrical soldering-block proper combined with an upright stem or handle. A very great number of such tools can be held in a plate of moderate dimensions, and will there be heated thoroughly and quickly without direct contact with the fire. The non-conducting surface of the plate is of great utility in this connection, as without it there would be so great radiation and the handles of the tools would become so highly heated as to render the use of the plate impracticable.

By thus having many receptacles in one plate, I save a considerable amount of fuel over the old method, which required a separate fire-pot for each workman, and thus not only wasted fuel but overheated the room.

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

A heating-plate for soldering-tools, made as herein shown and described, with sockets or receptacles for the tools, and a layer of non-conducting material covering the whole of its exterior surface except the tool-sockets or receptacles.

LOUIS McMURRAY.

Witnesses:

W. H. EMRICH,
JAS. E. FLYNN.