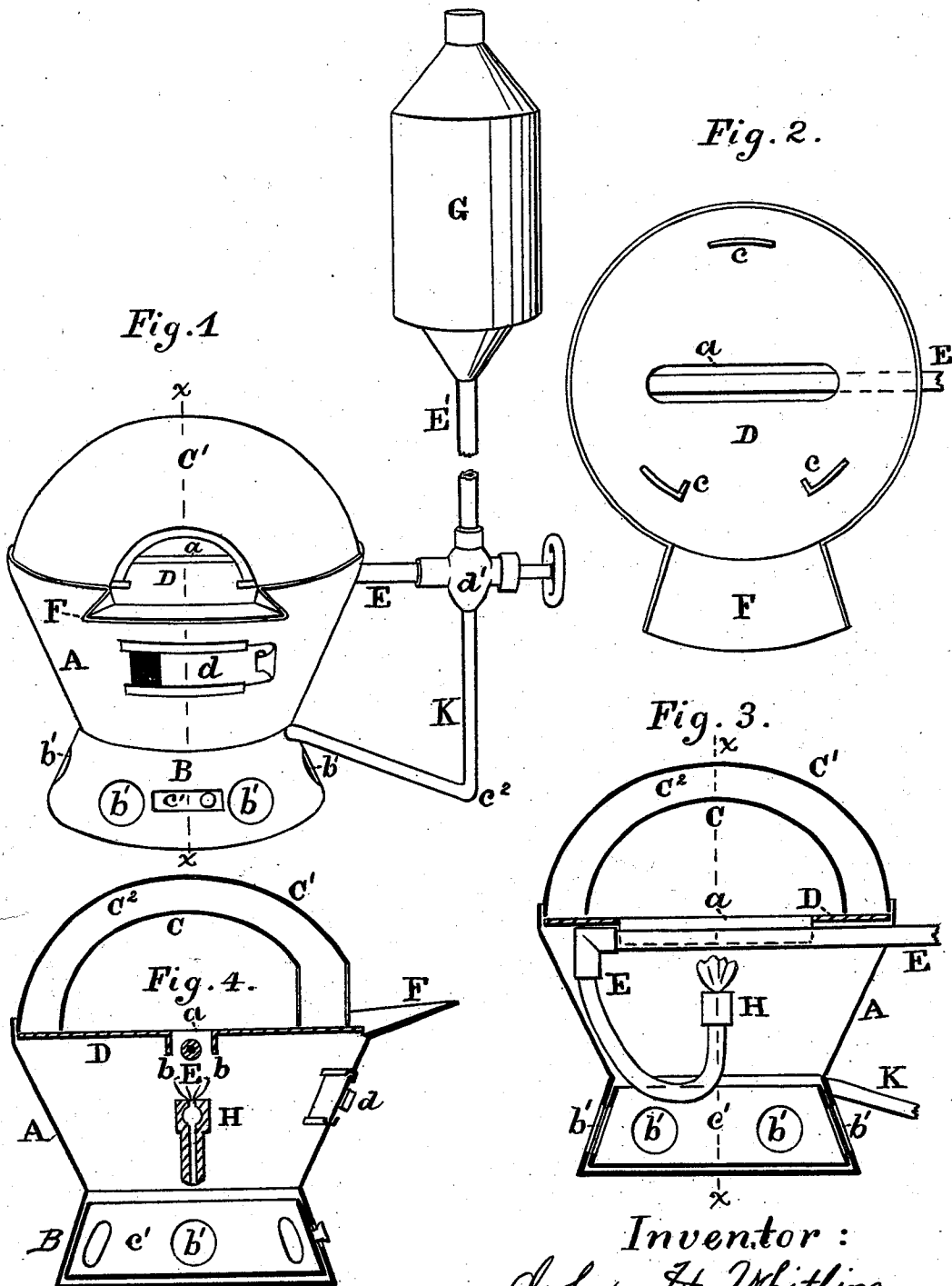


J. H. WHITLING.
TINNERS' FIRE-POT.

No. 173,095.

Patented Feb. 1, 1876.



Witnesses:
H. A. Daniels,
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Inventor:
John H. Whitling
by W. Burris
Attorney.

UNITED STATES PATENT OFFICE.

JOHN H. WHITLING, OF SALEM, OHIO.

IMPROVEMENT IN TINNERS' FIRE-POTS.

Specification forming part of Letters Patent No. **173,095**, dated February 1, 1876; application filed December 15, 1875.

To all whom it may concern:

Be it known that I, JOHN H. WHITLING, of Salem, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Tinnern's Fire-Pot; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective. Fig. 2 is a top view without the spherical covers. Fig. 3 is a vertical section on a line parallel with the pipe. Figure 4 is a vertical central section on line *x x* of Figs. 1 and 3.

My invention relates to gasoline or hydrocarbon soldering-furnaces, constructed and operated as hereinafter described.

A represents the body of the furnace, and B the base. C is an interior hemispherical shell, and C¹ is a larger hemispherical shell, forming the exterior cover, and a cold-air chamber, C², between the two shells, as shown in Figs. 3 and 4. These shells rest loosely upon a disk forming a floor, D, fitted inside of the upper part of the body of the furnace, and resting upon shoulders or lugs formed on the furnace. The central part of the disk is provided with a slot, *a*, and with flanges *b b*, extending downward by the sides of the pipe E, which, by means of cock *d'* and pipe E, connects with the reservoir G. The upper side of the disk is provided with lugs *c* to hold in place the shell C. F is an apron or hearth, and below it is a sliding door, *d*, to an open-

ing, giving access to the burner, for lighting or cleaning the same. The base B of the furnace is provided with draft-openings *b'* on all sides, which are closed and opened, as required, by an inside circular slide, C¹, extending all around the base. H is a burner, on the end of pipe E, which is curved downward to extend the burner under the pipe at the middle of the furnace, as shown in Figs. 3 and 4 of the drawings. K is a supporting-rod, bent at *c'* on a line with the bottom of the furnace, and attached at one end to the base B, and at the other end to the cock *d'*, as seen in Fig. 1.

Soldering-furnaces when used out of doors are liable to difficulty from strong winds, which difficulty is avoided in this furnace by placing the draft-openings at the bottom and all around the bottom of the furnace, and providing them with a slide, by which the draft may be graduated or shut off entirely, as required.

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

The furnace A B, having draft-openings *b'* and slide *c'* at the lower part of the base, and door *d* opposite the burner, in combination with shells C C¹, forming air-chamber C², disk D, having slot *a* and flanges *b b*, and pipe E, having burner H, substantially as and for the purposes described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN H. WHITLING.

Witnesses:

WILLIAM K. ECKSTEIN,
PETER AMBLER.