J. B. CARY.

Tinner's Fire Pot.

No. 63,991. Patented April 23, 1867.

Fig: 2.

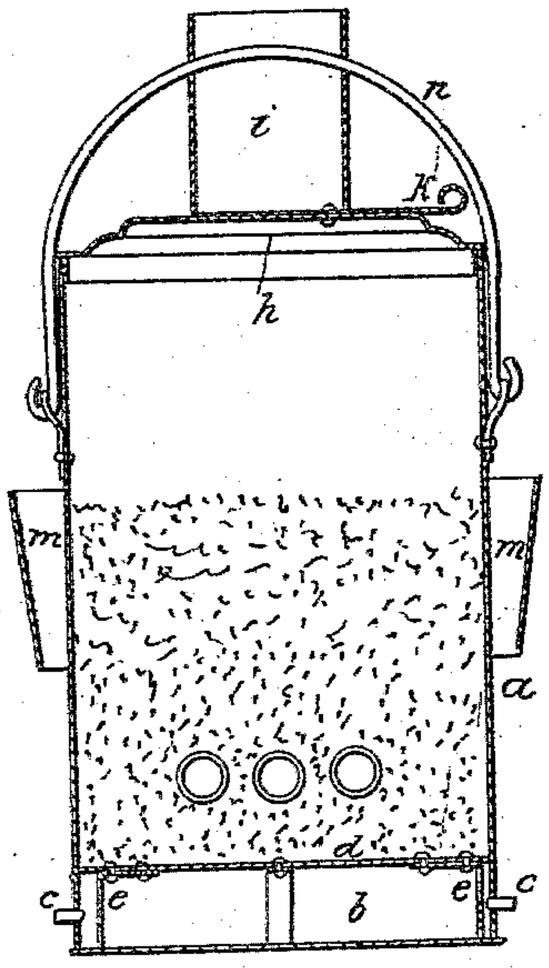



Fig: 1.

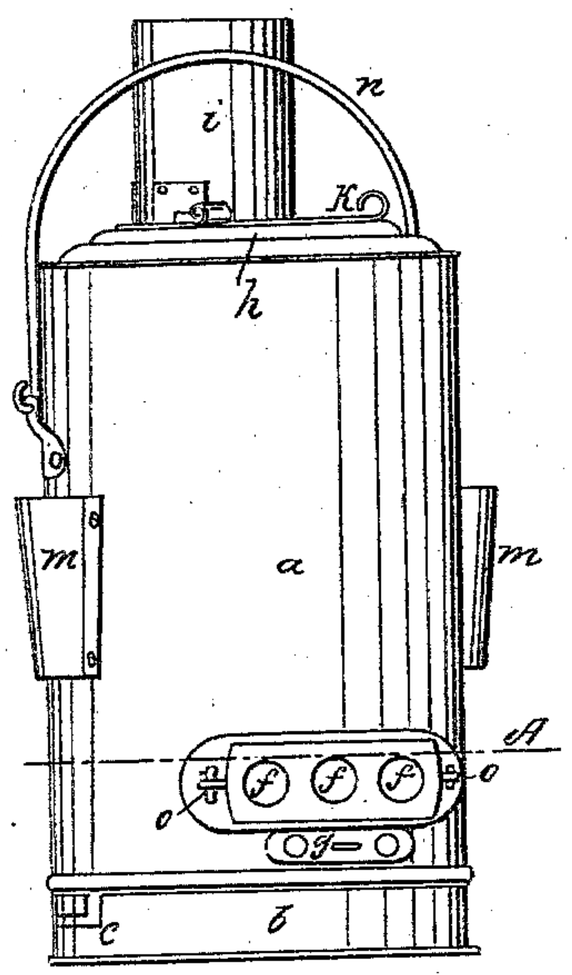



Fig: 3.

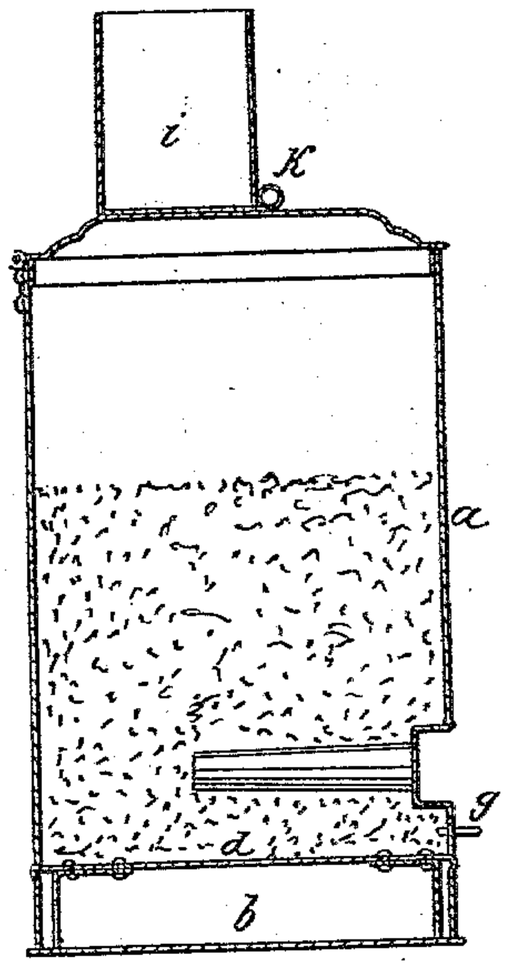



Fig: 4.

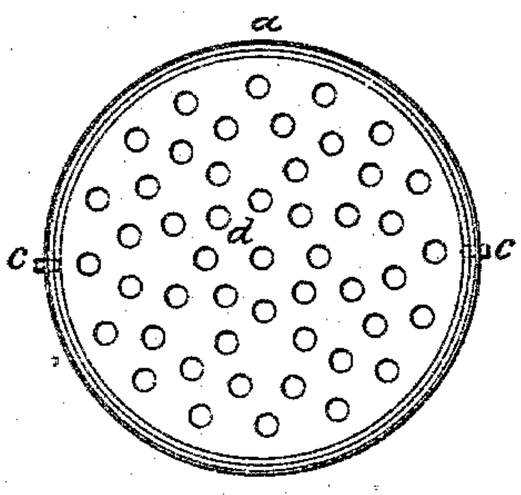



Fig: 5.

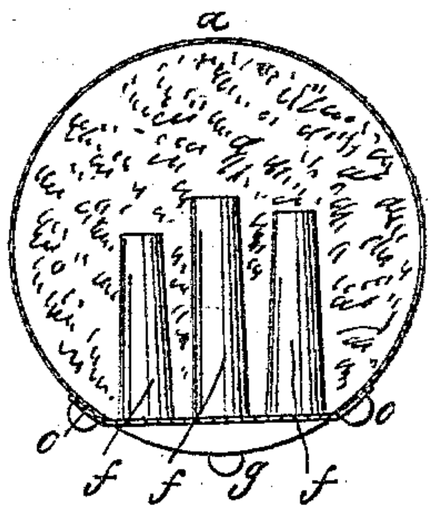
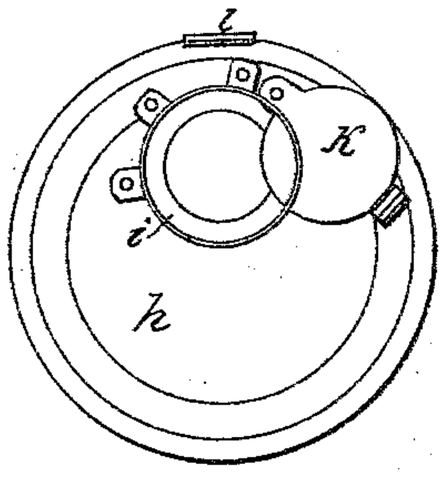



Fig: 6.

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Inventor:
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# UNITED STATES PATENT OFFICE.

JAMES B. CARY, OF MILLERSBURG, IOWA, ASSIGNOR TO CARY & YOUNG.

## IMPROVEMENT IN TINNERS' FIRE-POTS.

Specification forming part of Letters Patent No. **63,991**, dated April 23, 1867.

*To all whom it may concern:*

Be it known that I, JAMES B. CARY, of Millersburg, in the county of Iowa and State of Iowa, have invented an Improvement in Soldering-Pots; 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.

The nature of my invention consists in inserting three or more metal tubes in the front of the soldering-pot the size of the soldering-iron, which are made tapering. The coal and fire are on the outside of said tubes, and irons are placed in the tubes for heating, instead of directly in the fire, which will keep said irons clean and prevent the tin from being burned off from the copper. There is also a grate with an ash-pit at the bottom. There are dampers, one in the pipe at the top and one under the soldering-iron tubes at the bottom.

Figure 1 is an elevation of my invention; Fig. 2, a cross-section; Fig. 3, a longitudinal section; Fig. 4, a plan of grate; Fig. 5, a horizontal section at A; Fig. 6, a plan of the top.

Similar letters of reference indicate corresponding parts in the said figures.

*a* in the said figures is the case; *b*, the ash-pit or bottom, secured to the case *a* with lugs *c*. *d* is the grate, held up with legs *e*. *f f* are the soldering-iron tubes or heaters, with small holes in the under side, as shown at *j*. *g* is a damper below soldering-iron tubes. *h* is the top; *i*, the smoke-flue, with damper *k*. The top is hinged to case *a* at the back, as shown at *l*. *m m* are iron-holders, to be used in taking the pots out of the shop. *n* is the bail.

The ordinary size of the pot is sixteen (16) inches deep, and eight (8) inches in diameter. The ash-pit below grate is two (2) inches deep. The soldering tubes or heaters are made of cast-iron, five (5) inches long, made one and one-fourth (1¼) inch in diameter at the front end, and tapering back to one (1) inch at the back. All are attached together and secured to case *a* with catches *o*, so as to be removed at pleasure. Slide over damper-hole *g* is four (4) inches long by one and one-fourth (1¼) inch wide. The holes are one (1) inch in diameter.

By the use of the two dampers there is a very great saving of coal, and by the application of the grate the ashes will be disposed of more readily, which will cause the fire to burn more briskly, and thus get a more intense heat when required.

There is a very great advantage in the use of the soldering-iron tubes or heaters, for by the use of them the irons are heated as readily, kept clean, and there is no danger of their being destroyed by burning and the tin coming off.

What I claim as new is—

The soldering-iron tubes *f f*, as secured to case *a* with catch *o*, as set forth in the specification.

JAMES B. CARY.

Witnesses:

F. T. SMEAD,

H. G. A. COOKE.