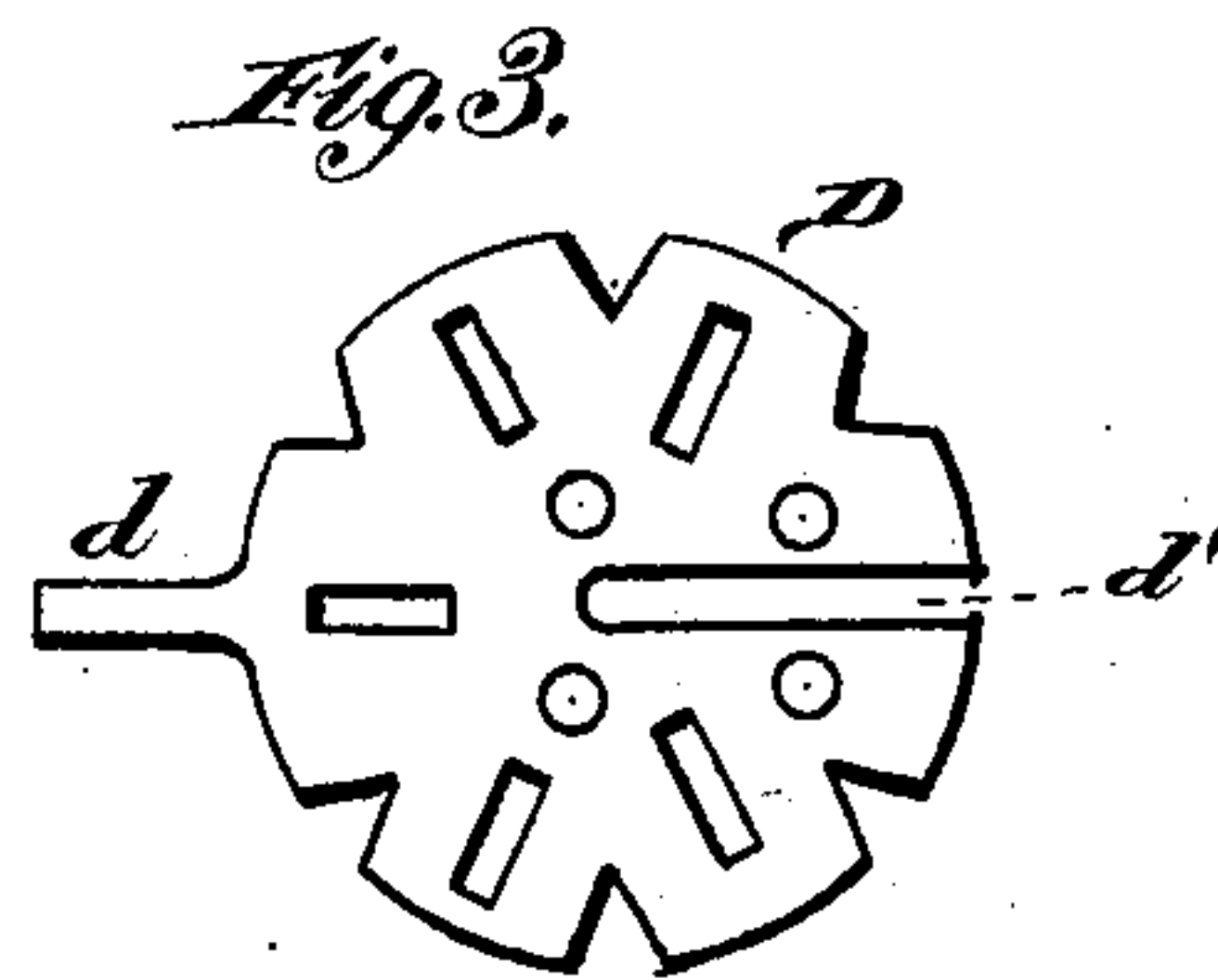
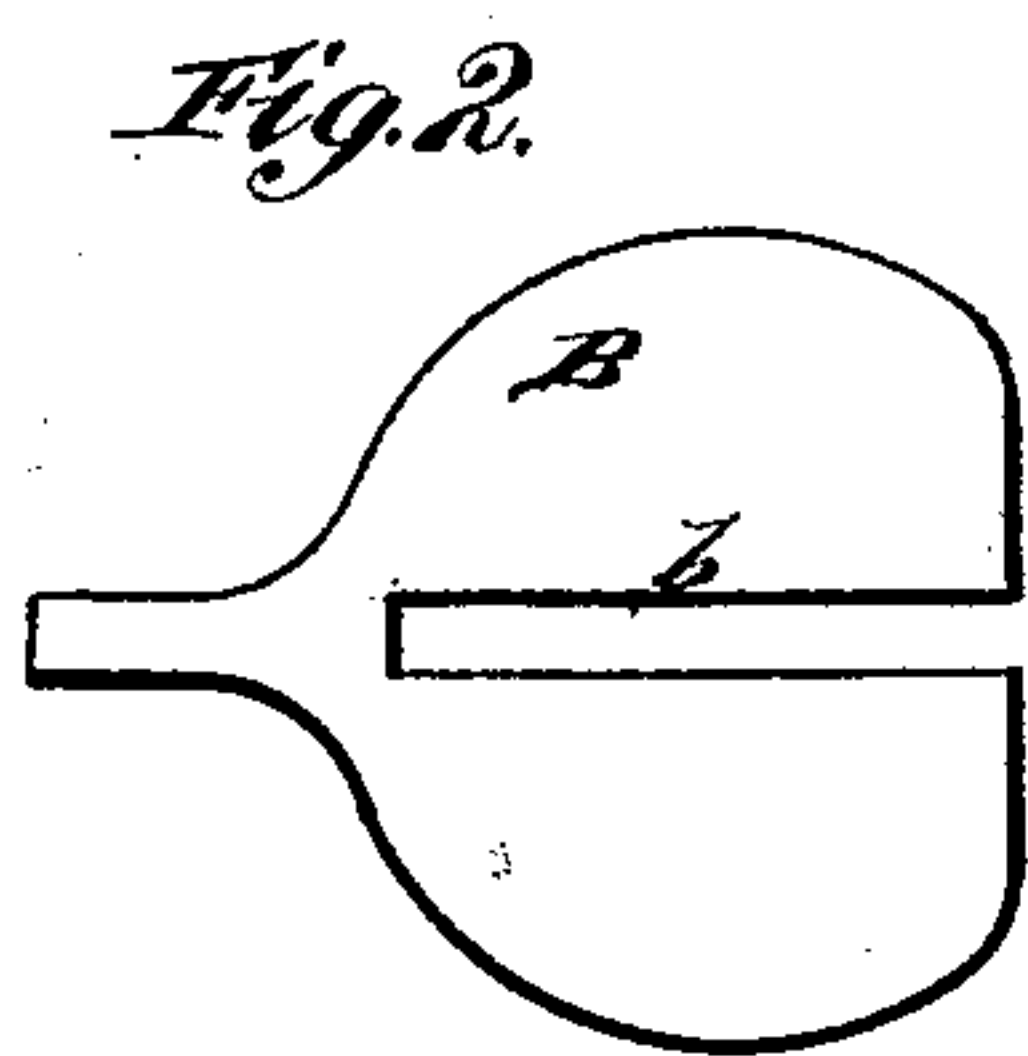
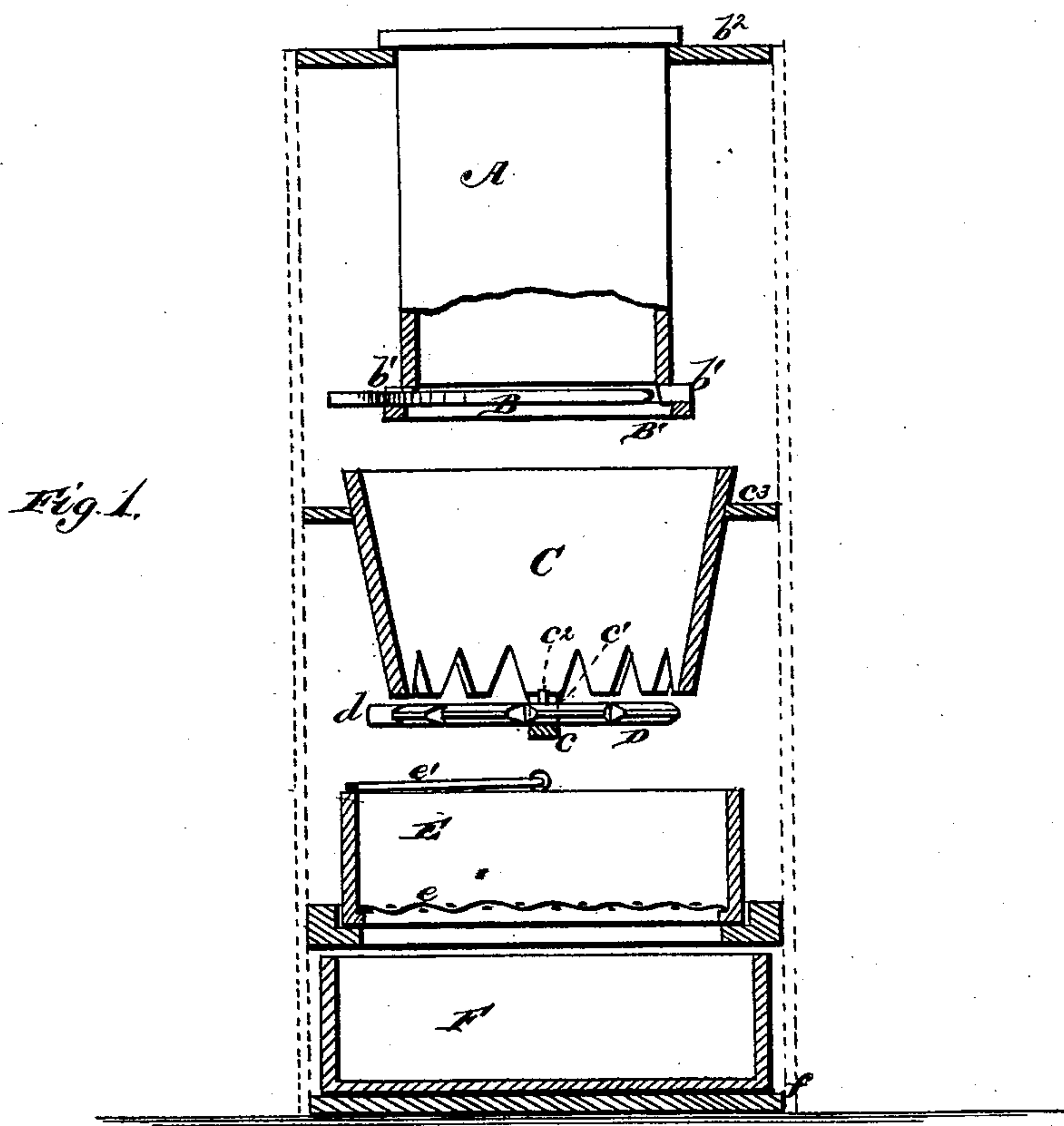


O. E. LAKE.  
Grate for Stoves.

No. 217.804.

Patented July 22, 1879.



WITNESSES  
*Robert Everett*  
*W. M. Severance*

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# UNITED STATES PATENT OFFICE

ORANGE E. LAKE, OF WALKERSVILLE, MARYLAND.

## IMPROVEMENT IN GRATES FOR STOVES.

Specification forming part of Letters Patent No. **217,804**, dated July 22, 1879; application filed May 10, 1879.

*To all whom it may concern:*

Be it known that I, ORANGE ELIHU LAKE, of Walkersville, in the county of Frederick and State of Maryland, have invented certain new and useful Improvement in Grates for Stoves; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal sectional view; and Figs. 2 and 3 are detail views, showing a detail view of an ordinary cut-off and a plan of my grate.

This invention relates to grates for stoves; and consists in the improvements in the construction of the same hereinafter fully described, and particularly pointed out in the claim.

Referring to the drawings, C is a fire-pot, provided with the bar *c*, having the lugs *c*<sup>1</sup>, said bar being attached to the bottom of the fire-pot in such a manner as to allow the introduction of the grate D. The grate D rests upon the bar *c*, and is provided with a handle, *d*, is perforated and slotted to permit the passage of ashes, and has a radial slot, *d*<sup>1</sup>, opposite to the handle *d*. There is also a stud, *c*<sup>2</sup>, on the bar *c*, over which the slot *d*<sup>1</sup> passes, and which serves as a pivot for shaking the grate

by a vibratory motion. By this construction the grate can be readily withdrawn from the stove and the contents of the fire-pot emptied into any suitable vessel beneath.

A designates the fuel-reservoir, having a cut-off, B, supported by a ring, B', and lugs *b*<sup>1</sup>. E is a sieve, having a bail, *e*<sup>1</sup>, *e* representing the wire. F designates an ash-pan.

No improvement in the fuel-reservoir or sieve is claimed in this application; but the right is herein reserved to make separate applications for the same.

*b*<sup>2</sup> designates the top, and *f* the bottom, of the stove.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

In a heating-stove, the removable grate D, provided with the radial slot *d*<sup>1</sup> and handle *d*, in combination with a fire-pot having the bar *c*, lugs *c*<sup>1</sup>, and stud *c*<sup>2</sup>, as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ORANGE ELIHU LAKE.

Witnesses:

W. R. JOHNSON,  
JOHN W. RINE,  
H. CLAY NAILL.