

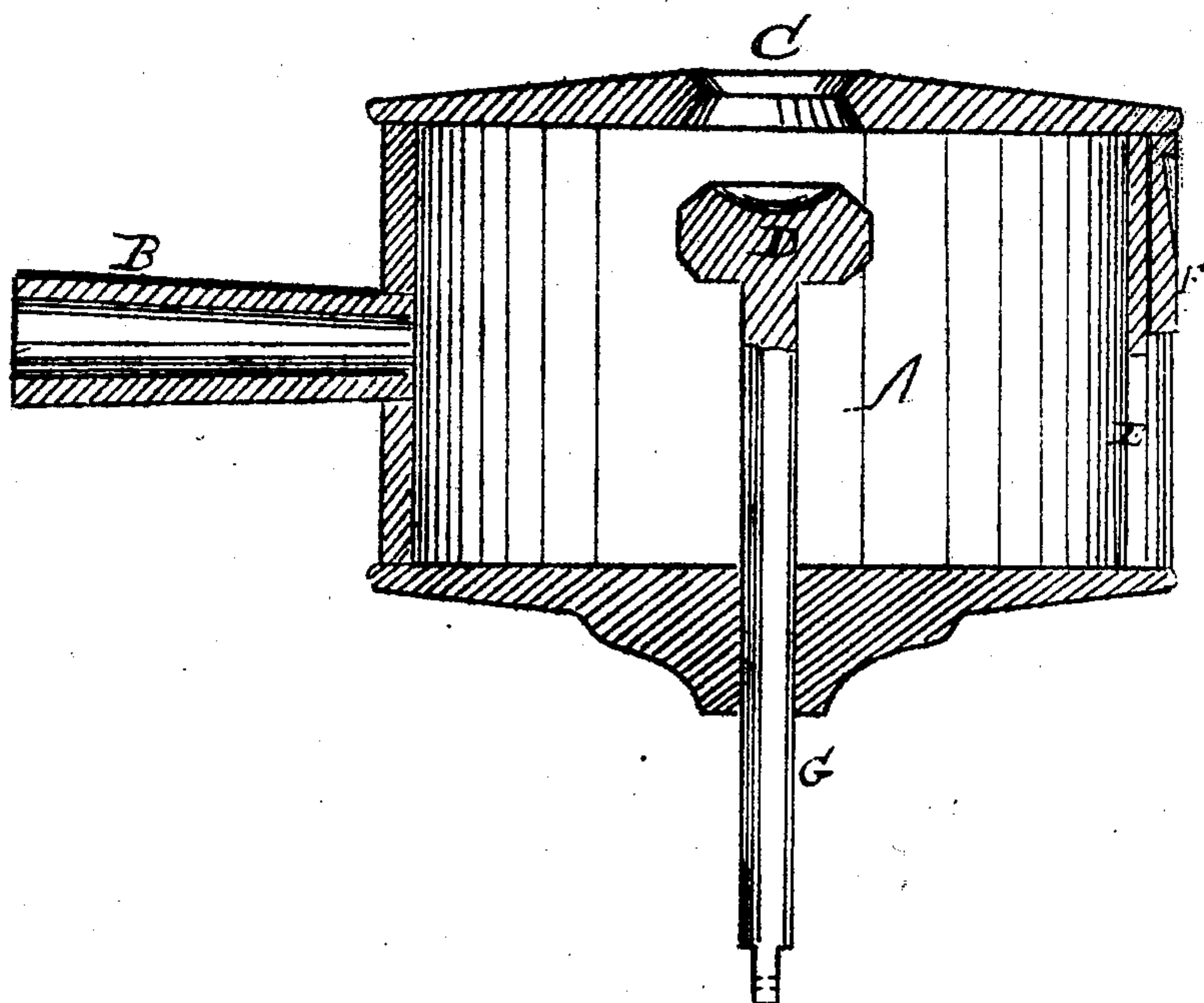
# *Lyman M. Bailey, Tweer Iron.*

*assigned to Self & Joseph P. Long*

73490

PATENTED

JAN 21 1868



Witnesses

*Thos. Ensey*  
*Wm. Frewin*

Inventor

*L M Bailey*  
*Per Wm. Frewin*  
*Attorney*

# United States Patent Office.

LYMAN M. BAILEY, OF LANDGROVE, VERMONT, ASSIGNOR TO HIMSELF  
AND JOSEPH P. LONG, OF SAME PLACE.

*Letters Patent No. 73,490, dated January 21, 1868.*

## IMPROVEMENT IN TUYERE-IRON.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, LYMAN M. BAILEY, of Landgrove, in the county of Bennington, and State of Vermont, have invented a new and improved Tuyere-Iron; 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 make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to an improvement in what is known as the concave tuyere-iron for blacksmiths' fires; and it consists in the arrangement of a valve whereby the fire may be regulated to suit the work in hand, as may be desired, and in combination therewith a door or aperture for clearing the air-chamber of ashes or cinders, the object being to control the current of air and economize coal.

The drawing represents a vertical central section of my tuyere-iron.

A represents the air-chamber. B is the tube which is connected with the bellows or air-supply pipe. C is the aperture through which the air or blast is discharged. D is the valve by which the blast is regulated. E is a door-aperture in the side of the chamber A for the removal of any cinders or ashes from the chamber. F is a slide-door by which the aperture E is closed when the tuyere-iron is in use. G is a rod which is attached to the valve, and which passes down through the forge, as seen in the drawing, the bottom end of which is connected with a lever, so that the valve can be raised by the foot, and the fire and current of air thereby be regulated with the greatest facility.

The advantages of this arrangement will be appreciated by all who are acquainted with the subject.

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

The combination of the chamber A, perforated cap-plate C, solid valve D, and sliding door F, all constructed as set forth.

LYMAN M. BAILEY.

### Witnesses:

HORACE H. HARLOW,  
HIRAM DAVIS.