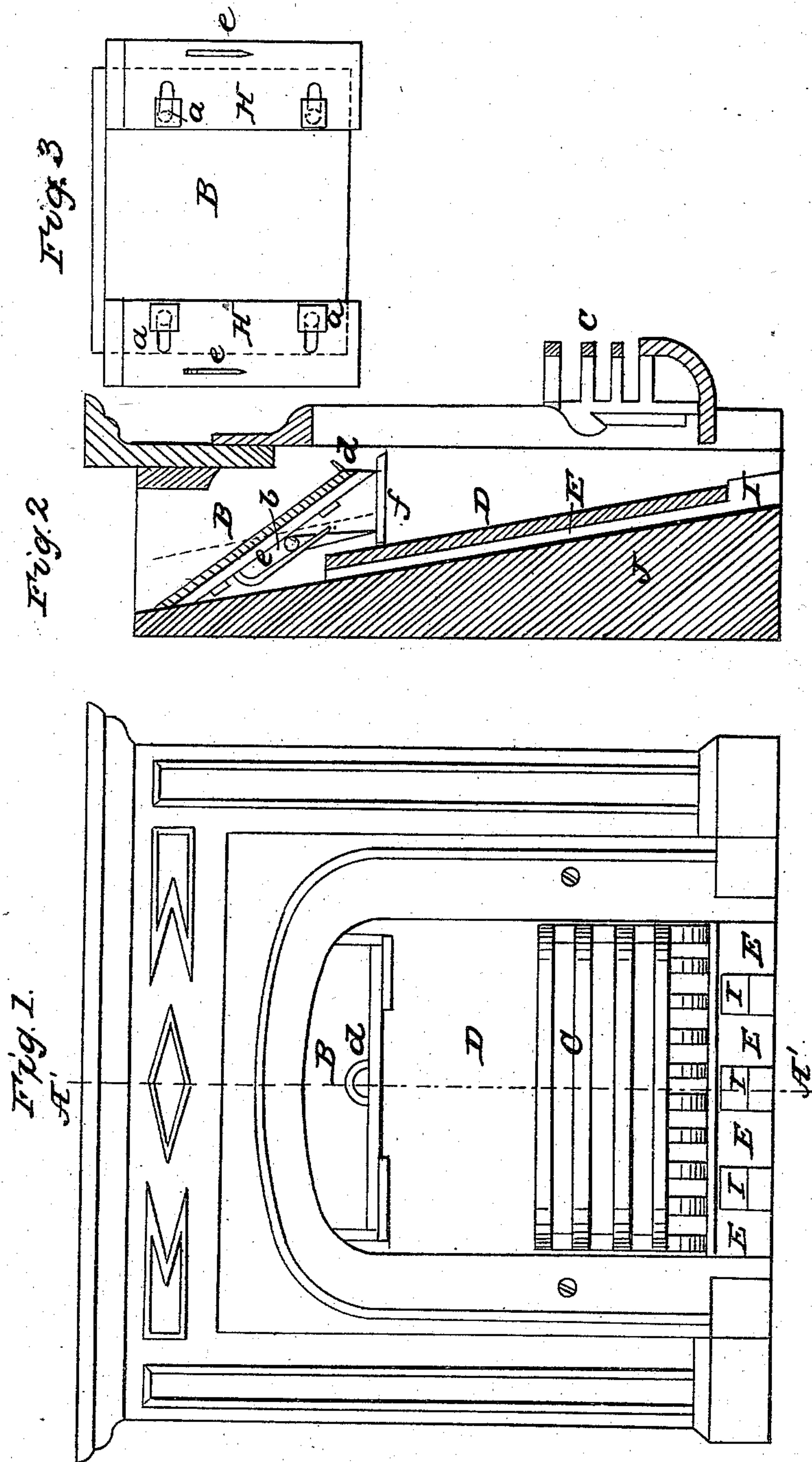


J. TIBERI.

Damper.

No. 31,914.

Patented April 2, 1861.



UNITED STATES PATENT OFFICE.

JOSEPH TIBERI, OF ST. LOUIS, MISSOURI.

FIRE-GRATE.

Specification of Letters Patent No. 31,914, dated April 2, 1861.

To all whom it may concern:

Be it known that I, JOSEPH TIBERI, of the city and county of St. Louis and State of Missouri, have invented a new and useful

5 Improvement in Open - Grate Fireplaces; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawing, making part of this specification,
10 in which—

Figure 1 is a front elevation, Fig. 2 a vertical section on the line A' A', and Fig. 3 a part of my invention to be hereinafter explained.

15 The following description of my invention will enable any one skilled in the arts to which it appertains to make and use the same.

20 Similar letters of reference represent corresponding parts of the different figures of the drawing annexed.

In the drawing J represents the chimney-back, and D a loose fire back, between which and the chimney back there are made a number of flues E, the said flues being formed by a series of piers I made in the chimney back on the lower part of which piers the back D sets, there being projections made on the said piers to receive the said back in the manner
30 shown. The object of the flues E is to obtain a draft on the under side of the grate basket by which means the ashes will be prevented from flying out in the room when the fire is raked.

35 The grate or fire basket is represented in the drawing by C. The said fire basket is of the ordinary construction and is arranged in the ordinary manner.

B is a loose damper, arranged in the throat
40 of the chimney. The lower end of this damper rests upon two cleats—one on each side of the chimney—represented by *f* in the drawing. The said cleats have notches made in their upper sides, or faces, into which the
45 lower end of the damper is made to rest, the lower end of the said damper being made with a sharp edge to fit the notches in the cleats aforesaid. On the back of said damper two hooks *e e* are fixed each of which hooks
50 fit over a pin *b* set in each side of the chim-

ney throat. This said damper is made adjustable so that the draft of the chimney may be made to pass either in front of the said damper or behind it.

When the damper is in the position shown 55 in the drawing, the draft is in front thereof and the heat of the fire is concentrated thereunder and radiated into the room; but if the damper be set in the position indicated by the red line the draft will be on both 60 sides thereof, no heat will be concentrated thereunder, and but very little heat will be radiated into the room, and if the said damper be so arranged as to bring the top thereof against the front of the throat of 65 the chimney and the bottom thereof against the back of said chimney, then the whole draft of the chimney will be through the flues E, which will cause a very slow combustion of fuel, and the whole of the heat to 70 be carried up chimney. The said damper is made adjustable, so that one damper will fit flues of different widths, thus requiring but one set of patterns to furnish dampers of any width. This construction of damper 75 is shown by Fig. 3. It consists of a center plate B and two side plates H H. The said side plates are made with oblong holes *a a a a* through which screws or bolts are passed, whereby the said side plates are fixed 80 to the center plate in any desired position. In the front of the said damper and near the lower end thereof a staple or eye *d* is made by which the position of said damper may be regulated by means of the fire 85 poker.

The construction and arrangement of this damper constitutes the essence of this my invention; and

Having now fully described the construc- 90 tion and operation of my said invention what I claim as new and desire to secure by Letters Patent is—

The arrangement of the said damper in the throat of the chimney in the manner de- 95 scribed, for the purpose specified.

JOSEPH TIBERI.

Witnesses:

J. B. STRAIN,
R. B. GRAY.