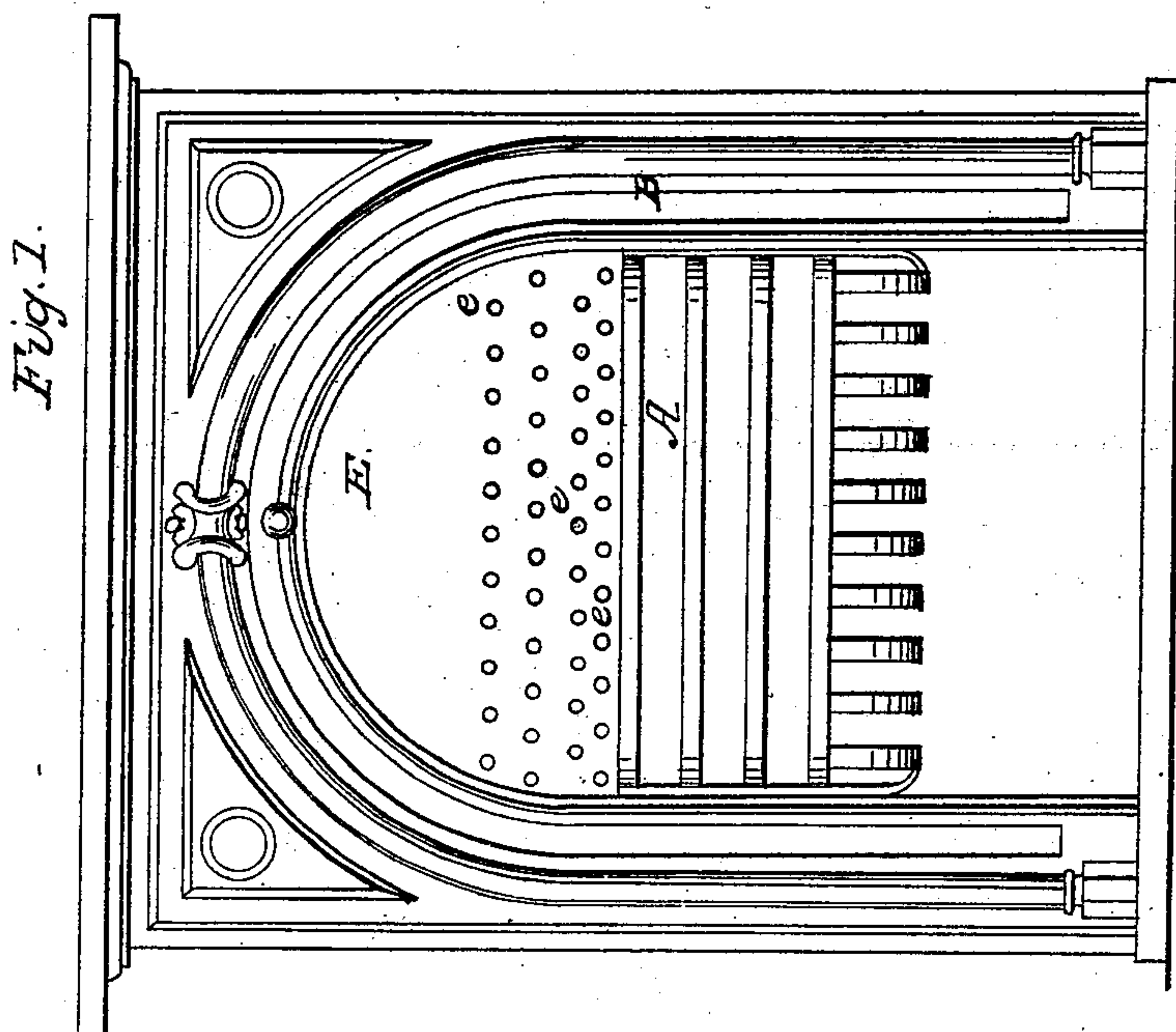
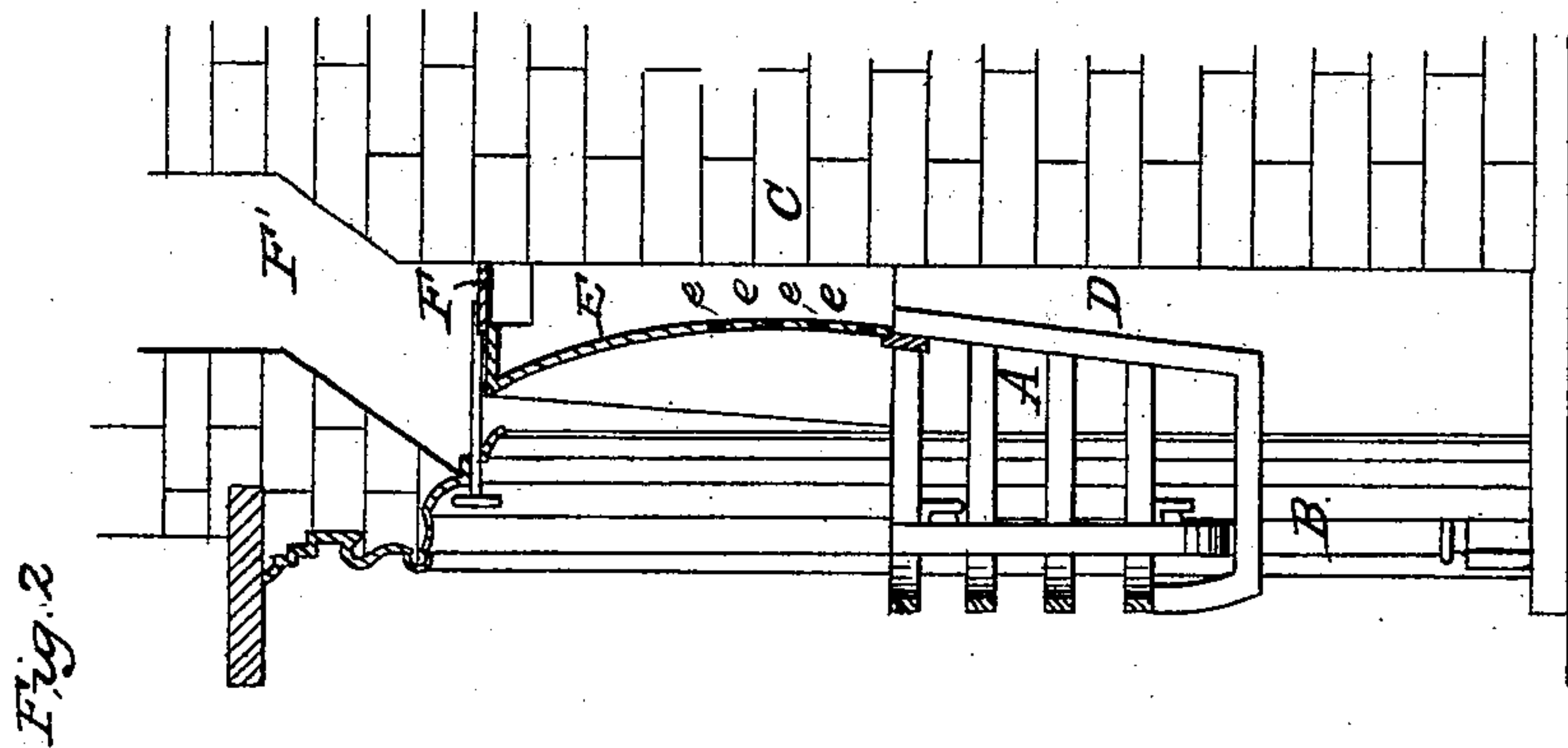


A. SNYDER.

Fire Place.

No. 95,529.

Patented Oct. 5, 1869.



Witnesses.
Victor Hagmann
James O. Grady

Inventor
Asa Snyder

United States Patent Office.

ASA SNYDER, OF RICHMOND, VIRGINIA.

Letters Patent No. 95,529, dated October 5, 1869.

FIRE-PLACE.

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, ASA SNYDER, of Richmond, in the county of Henrico, and State of Virginia, have invented a new and useful Improvement in Fire-Grates; 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 accompanying drawings, making a part of this specification, in which—

Figure 1 is a front elevation, and

Figure 2 is a longitudinal vertical section.

This invention consists of a basket-grate and concave perforated radiator, placed in such relation to the chimney and jambs as to leave an air-space between the grate and the chimney and jambs, said air-space being in fact a continuation, downward, of the smoke-flue of the chimney, and being separated from such smoke-flue by a damper placed between the radiator and the chimney for the purpose of creating a rapid draught through the air-space, and carrying off the debris dislodged by raking the fire.

In the drawings—

A is the grate, B, the fire-frame, and C, the supporting brick-work.

The grate and fire-frame are placed sufficiently far in front of the brick-work to leave an open space, D,

in rear of the former, for the free admission of air, to the end that there may not be dead coals in the lower and back parts of the grate.

The radiator E is provided with a large number of perforations, *e*, just above the grate, through which air enters from the space D, and, mingling with the products of combustion rising from the grate, tends to their more perfect consumption.

A damper, F, is placed across the space between the top of the reflector and the brick-work, and just at the mouth of the flue F'.

By drawing the damper, a rapid ascending current of air is created in the space D, which current bears off all ashes and cinders falling out of the grate during the raking-process.

Having thus described my invention,

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

The described arrangement of the basket-grate A, concave perforated radiator E, and damper F, with relation to each other, and the chimney C, and jambs B, as and for the purpose specified.

ASA SNYDER.

Witnesses:

JAMES H. GRIDLEY,
CHAS. A. PETTIT.