No. 633,049. Patented Sept. 12, 1899.

J. K. SMITH.

HOT PLATE.

(Application filed Oct. 27, 1898.)

(No Model.) 3 Sheets—Sheet 1.

Fig 3

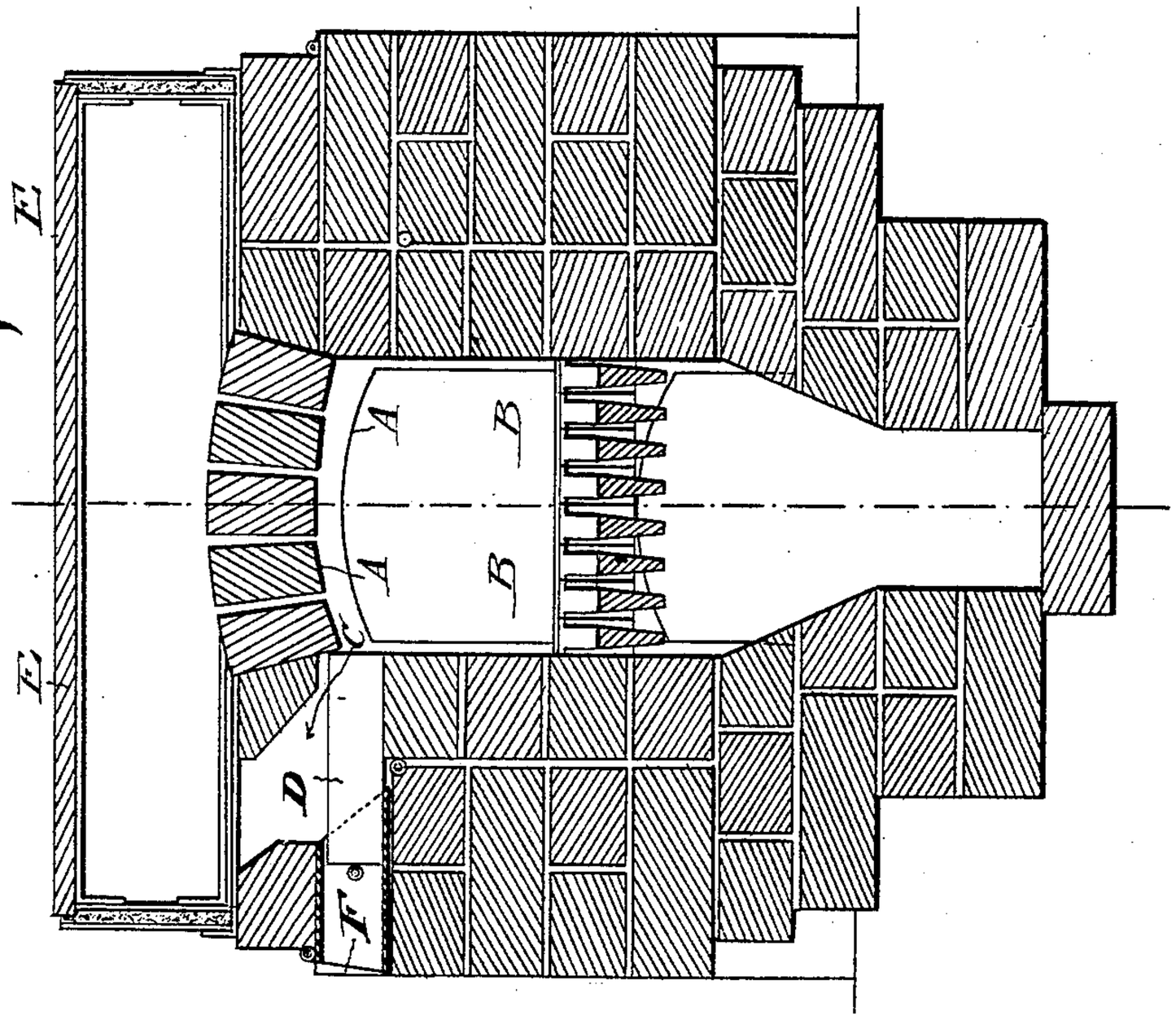
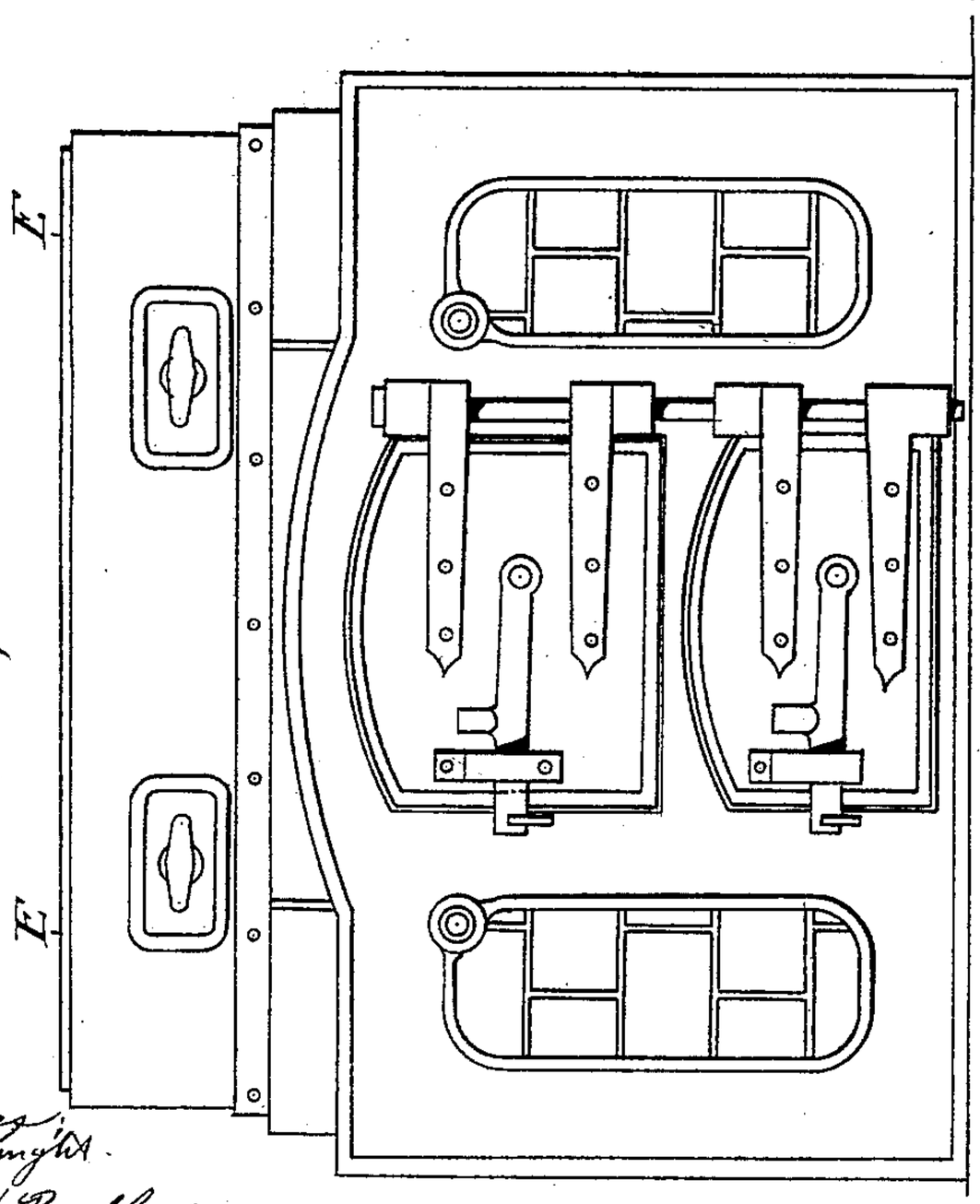


Fig 1



Witnesses:
Harry A. Knight
Herbert Bradley.

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(No Model.) 3 Sheets—Sheet 2.

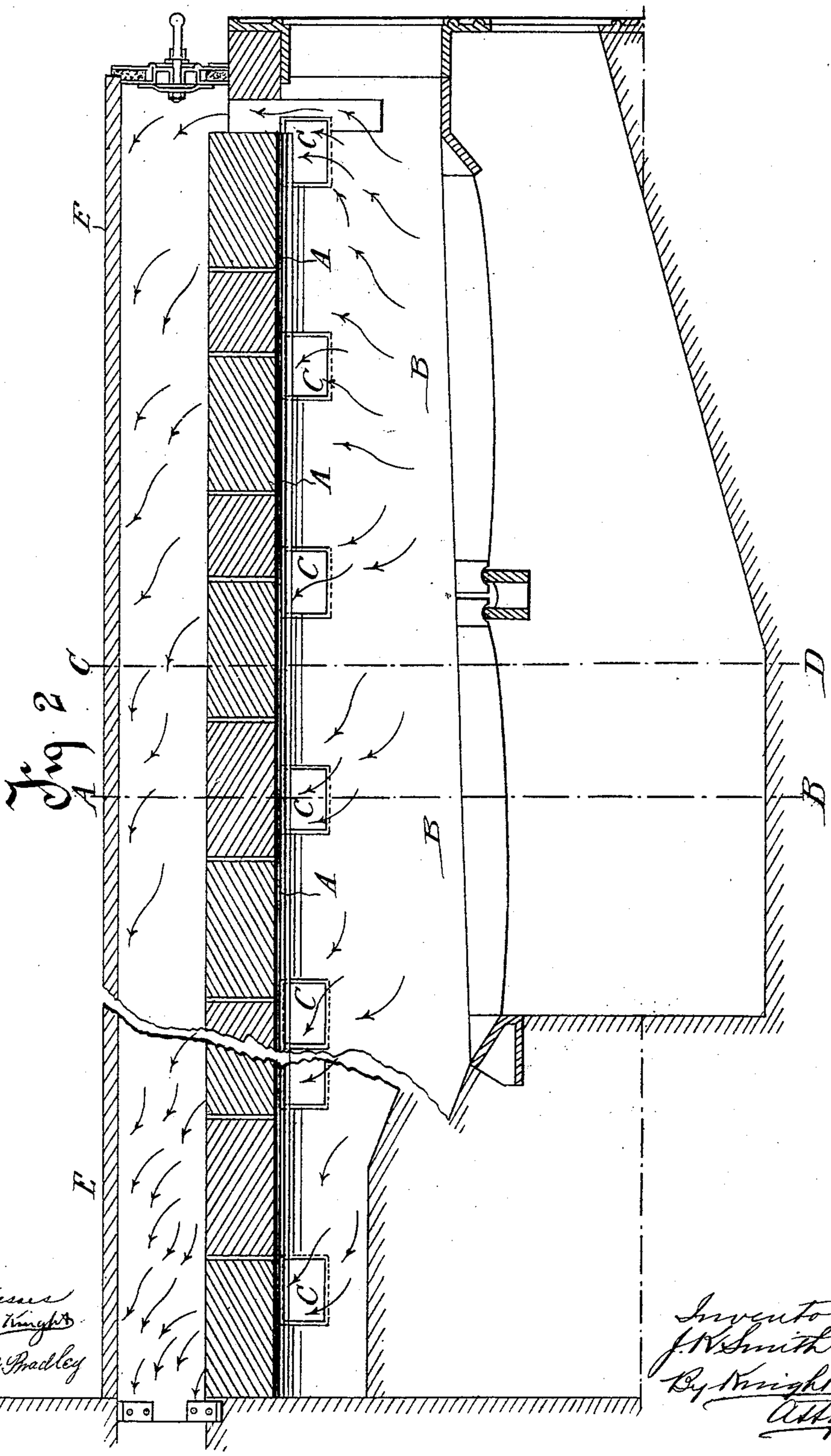

Fig. 2.

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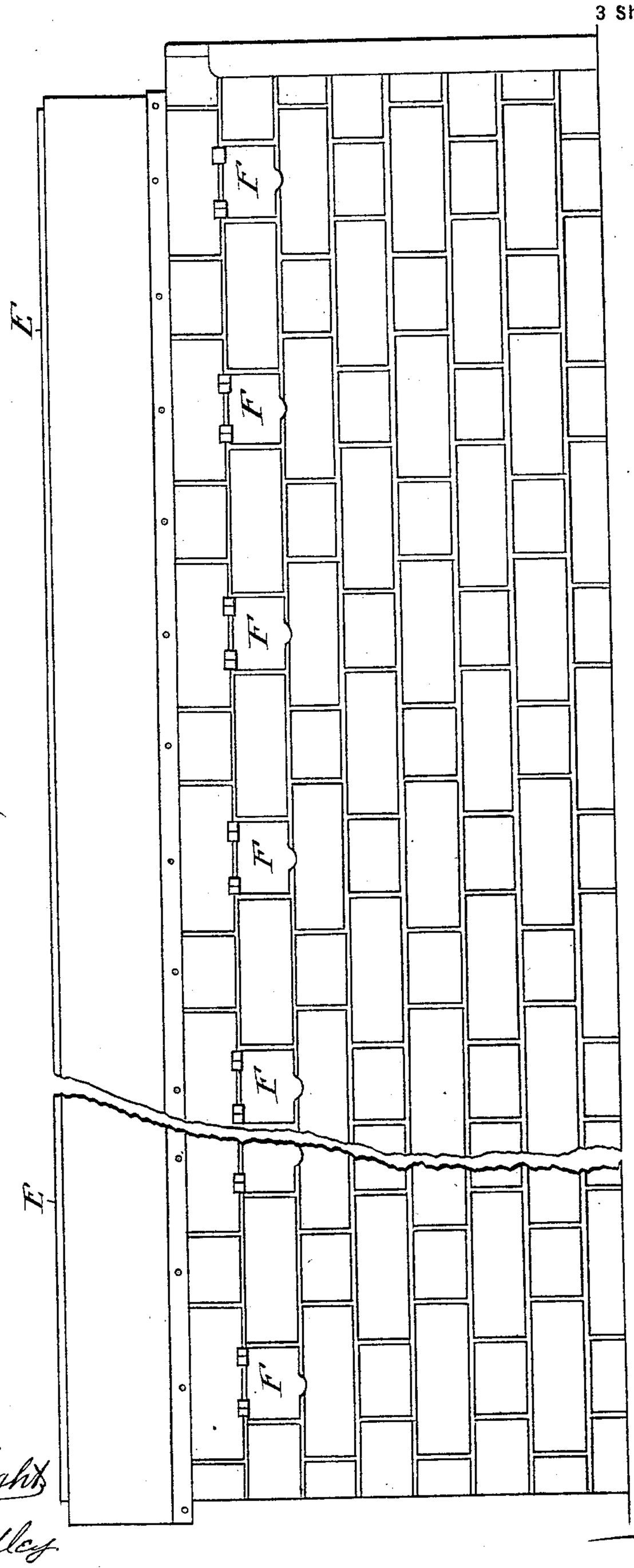
(No Model.) 3 Sheets—Sheet 3.

Fig 1.



Witnesses;
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UNITED STATES PATENT OFFICE.

JAMES KINMOND SMITH, OF EDINBURGH, SCOTLAND.

HOT-PLATE.

SPECIFICATION forming part of Letters Patent No. 633,049, dated September 12, 1899.

Application filed October 27, 1898. Serial No. 694,739. (No model.)

To all whom it may concern:

Be it known that I, JAMES KINMOND SMITH, baker and confectioner, of 294 Leith Walk, in the county and city of Edinburgh, Scotland, have invented Improvements in Hot-Plates, (for which I have obtained a patent in Great Britain, No. 8,409, bearing date April 9, 1898,) of which the following is a specification.

This invention relates to improvements in hot-plates for firing scones, cakes, and such like, and has for its object not only to economize fuel, but to construct them in such a manner as to be able to regulate the heat at will.

Figure 1 is a front elevation of a hot-plate and its furnace, showing my improvements. Fig. 2 is a longitudinal section. Fig. 3 is a half-section through the line A B and half-section through the line C D, both of Fig. 2. Fig. 4 is a side elevation.

In carrying out my invention I make the internal roof A of the furnace B flat or slightly dome-shaped and with flues or passages C running on each side thereof, (one side only being shown in the drawings,) through which the flames from the furnace pass to the hot-plate E. Dampers are provided, so that any of these openings can be closed or opened, as may be found desirable, in order to regulate the heat and throw it back or bring it forward, as required. These dampers may be in the form of a brick D, Fig. 3, so that when they are closed they cut off communication between furnace and hot-plate by the openings C, or they may be ordinary sliding or hinged plates F, Fig. 4, or any other form, as may be found most convenient. The hot-plate E rests on two plates filled in with asbestos or silicate-cotton, or it may rest on a brick or other wall or support.

I claim—

The combination of a furnace, the roof located over the furnace, the upwardly-extending flues located in the sides of the furnace, the dampers for controlling the passage of the flames through the flues, and a hot-plate located over the roof and over the flues; substantially as described.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

JAMES KINMOND SMITH.

Witnesses:

JOHN LIDDLE,

EDITH MARY EDMONDSTONE.