

(No Model.)

A. L. FOOTE.
STOVE GRATE.

No. 286,411.

Patented Oct. 9, 1883.

Fig. 1.

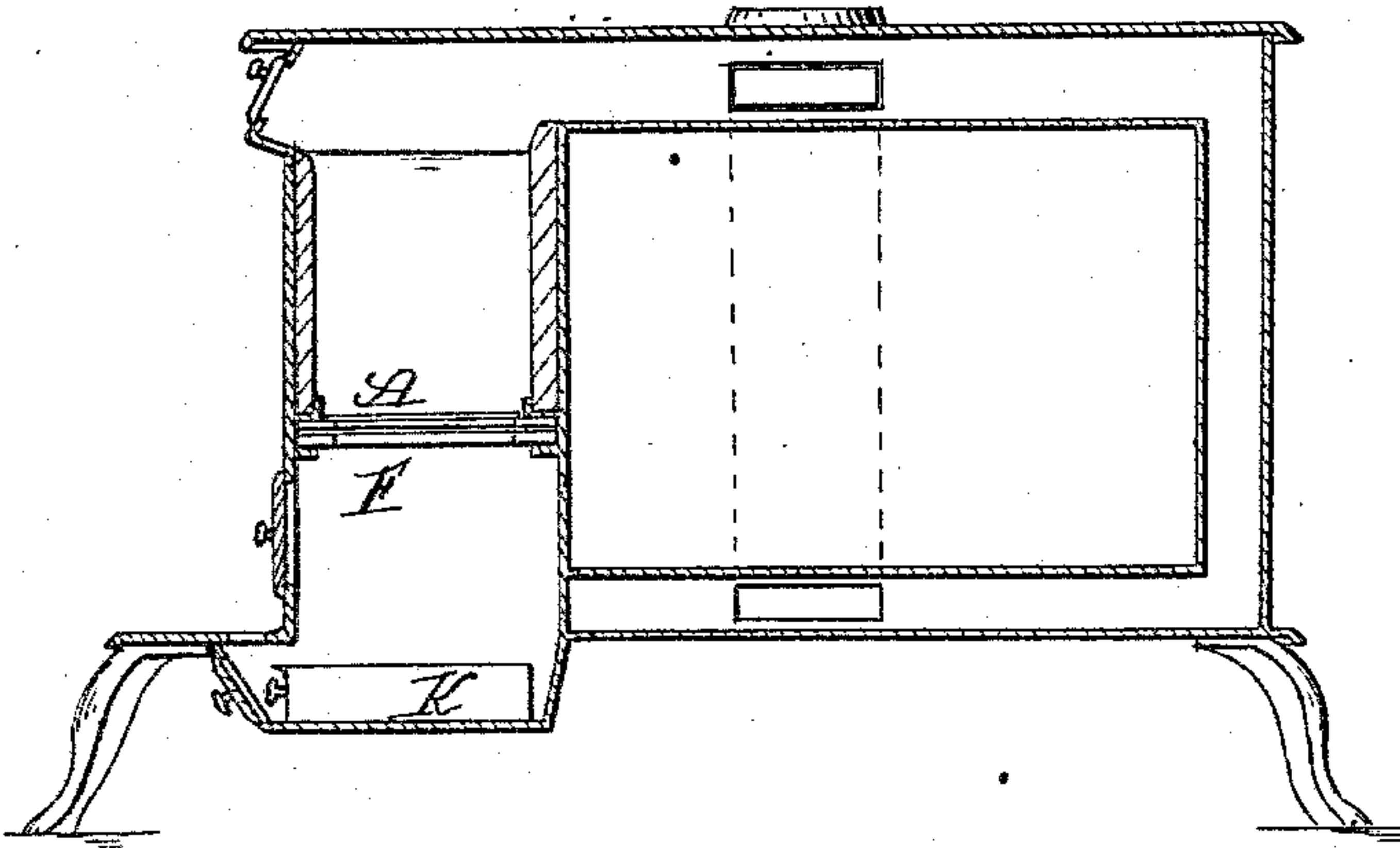


Fig. 4.

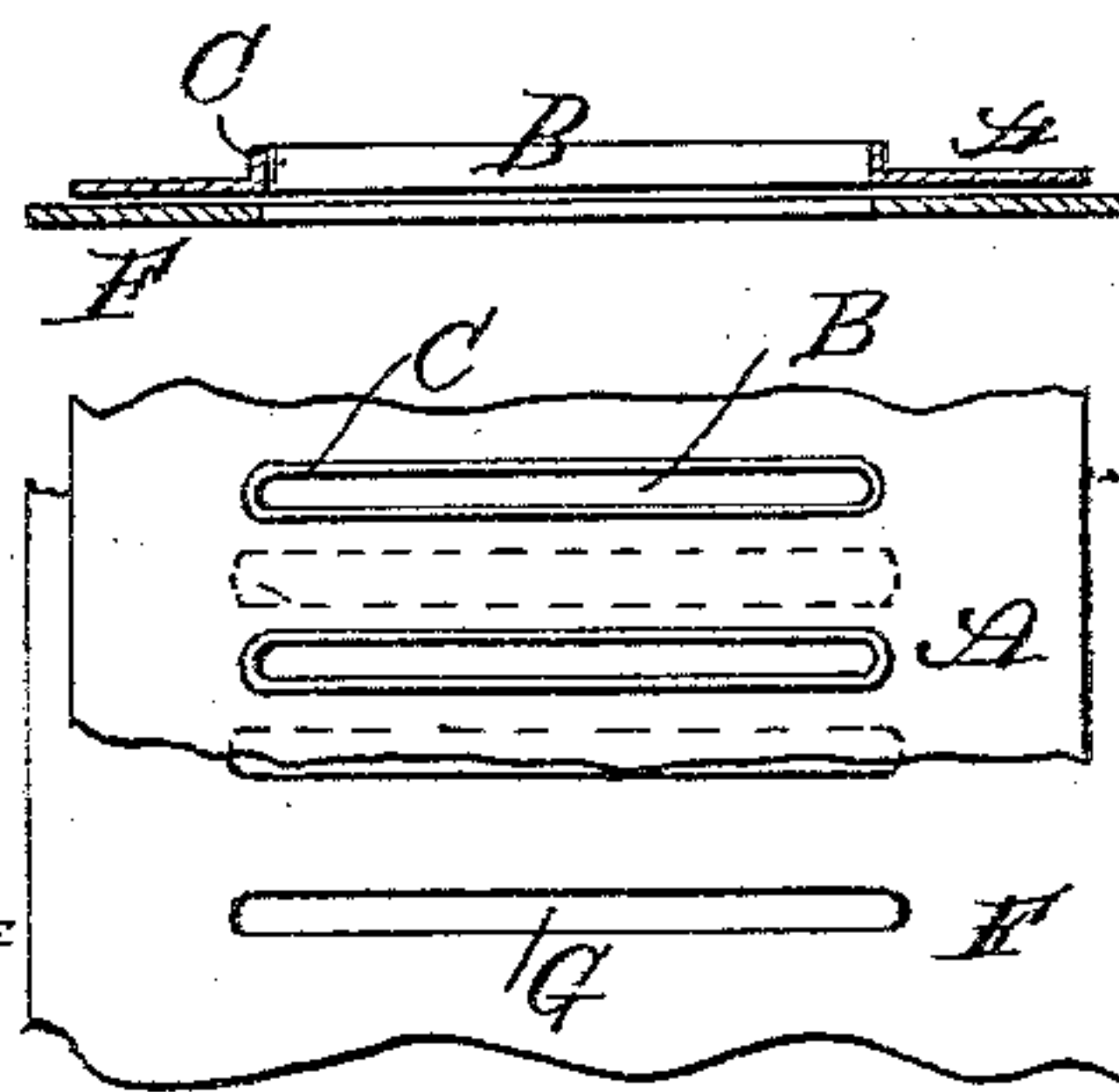


Fig. 2.

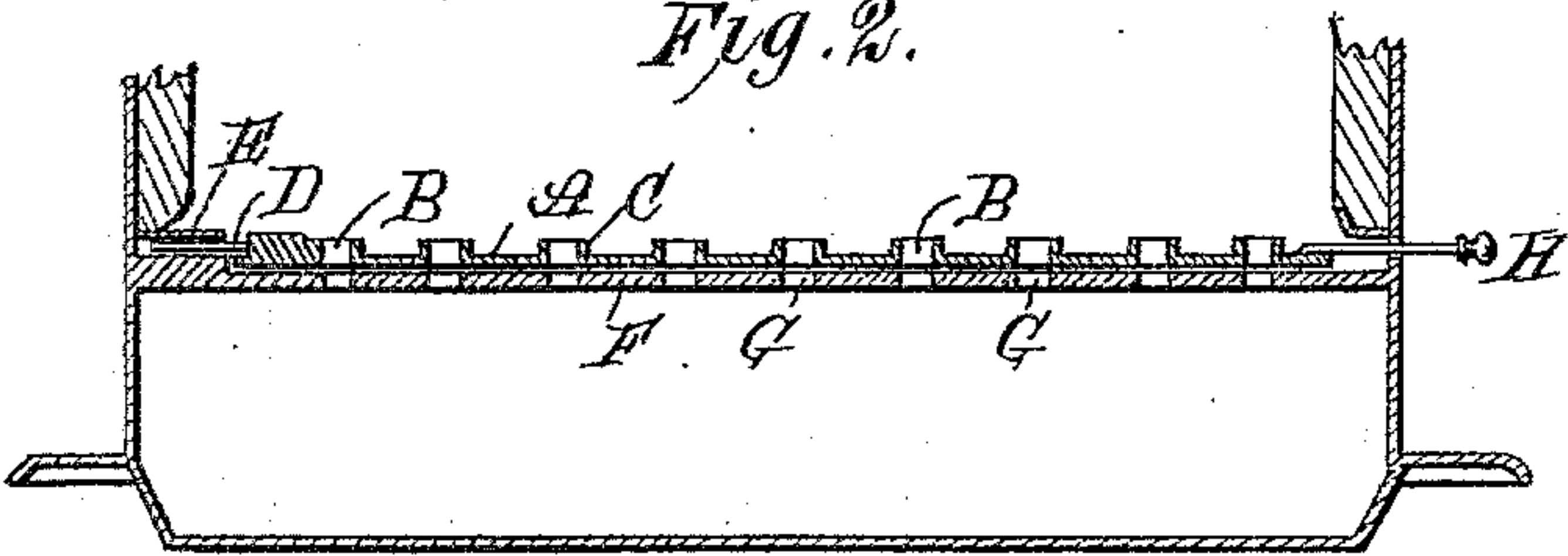


Fig. 5.

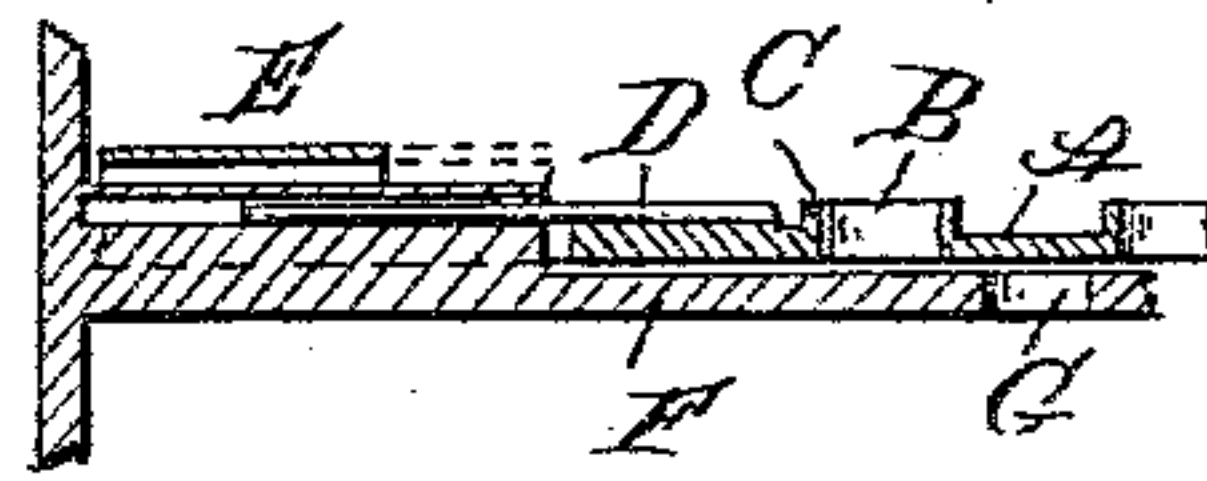
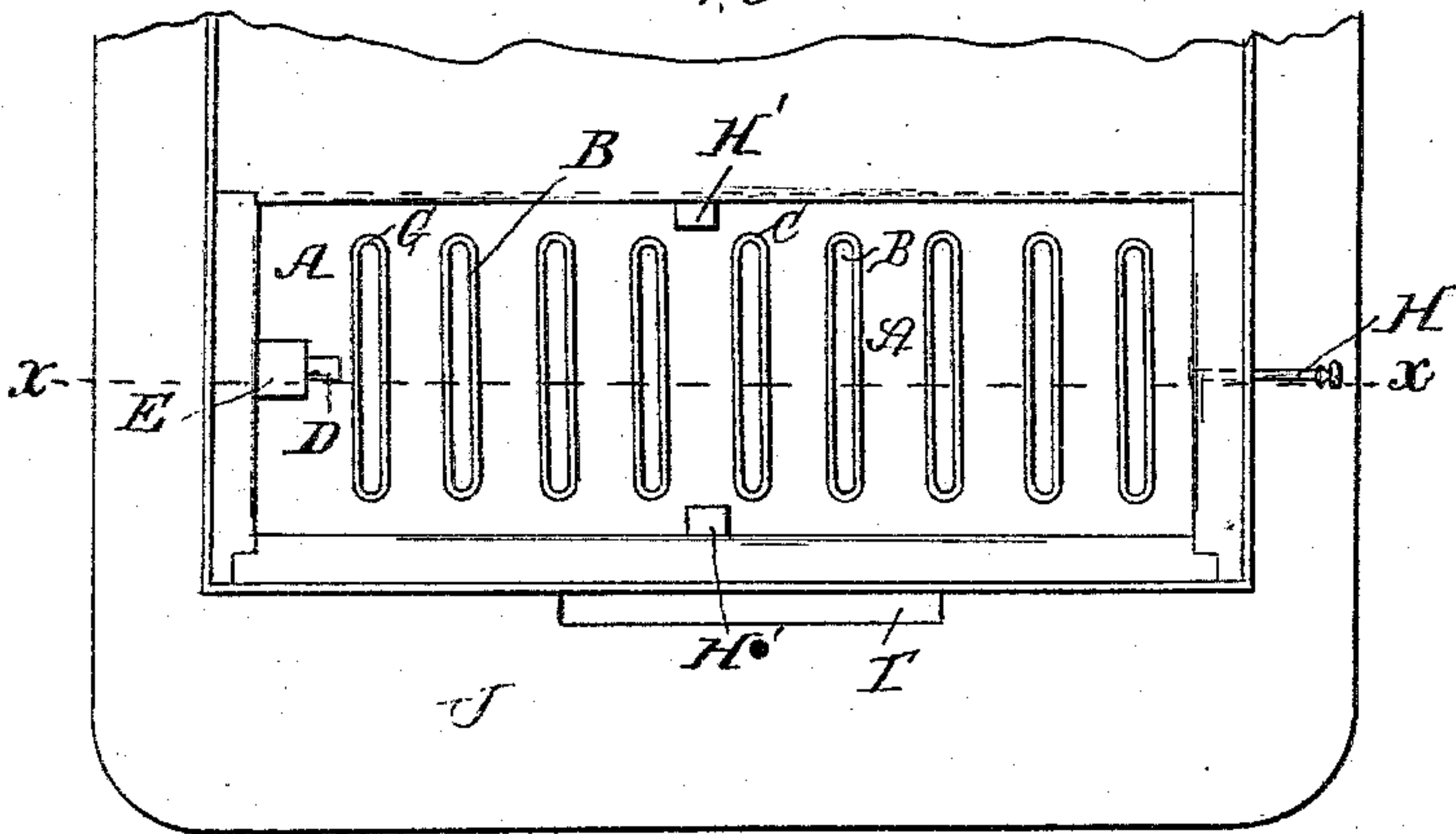


Fig. 3.



Witnesses.

Sam R. Turner
Wm B. Robison

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by
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his Att'y

UNITED STATES PATENT OFFICE.

ABRAM L. FOOTE, OF FAYETTE, IOWA.

STOVE-GRATE.

SPECIFICATION forming part of Letters Patent No. 286,411, dated October 9, 1883.

Application filed April 4, 1883. (No model.)

To all whom it may concern:

Be it known that I, ABRAM L. FOOTE, a citizen of the United States of America, residing at Fayette, in the county of Fayette and State of Iowa, have invented certain new and useful Improvements in Stove-Grates, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention relates to grates for stoves.

It consists in a fixed under grate having transverse openings and an upper grate with corresponding openings. The upper grate is adapted to slide over the lower one, all of which will be more fully hereinafter described, and pointed out in the claims.

15 In the accompanying drawings, Figure 1 represents a central longitudinal section through a stove provided with my improvement. Fig. 2 is a vertical section taken on the line $x x$ of Fig. 3. Fig. 3 is a plan view of the grate and a part of the stove. Fig. 4 is a cross-section of the two grates and a plan view of a fragment of the same, the dotted lines in the plan view representing the openings in the lower grate covered by the upper one. Fig. 5 is a sectional detail of the forward end of the grates.

20 Like letters indicate like parts throughout the several views.

A represents the upper grate, having openings B therein.

C are low flanges around the edges of openings B.

35 D is a short arm on one end of grate A, which passes under guide-strip E. Said strip is secured to the inner side of the stove.

F is the fixed under grate, and G are openings therein.

40 H is a rod fixed to one end of grate A. Said rod projects outside the stove, whereby the upper grate may be shaken and the ashes passed through openings B G into the ash-pan K.

45 H' H' are lugs fixed to the stove, which serve as guides for the grate A.

I is an opening in the hearth J. The flanges B prevent the cinders from sliding into and clogging the openings when coal is used. Wood may, however, be used, and in fact the device is intended to be principally used in connection with a wood-stove.

It will be seen that the draft can be regulated by sliding the upper grate over the lower one, by which means the openings may be wholly or partially closed. The grate-openings are not large enough to permit coal or wood to pass through, yet they are sufficiently large to admit the removal of ashes.

I do not wish to confine myself to the particular form of grate shown, as it is obvious that numerous modifications may be made without departing from the principle of my invention; and, further, my device may be used on a heater or a cook-stove.

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

1. The fixed grate F, provided with openings G, as specified, in combination with movable grate A, having openings B and flanges C, substantially as described, and for the purposes set forth.

2. The fixed grate F, having openings G, in combination with the movable grate A, having openings B and flanges C, and the rod H, substantially as described, and for the purposes set forth.

3. The fixed grate F, having openings G, in combination with the movable grate A, having openings B, flanges C, rod H, arm D, and guides H' E, substantially as described, and for the purposes set forth.

In testimony whereof I affix my signature, in presence of two witnesses, this 26th day of December, 1882.

ABRAM L. FOOTE.

Witnesses:

A. W. CALLENDER,
GEO. ROBERTSON.