

C. TRUESDALE.

Stove Grate.

No. 92,906.

Patented July 20, 1869.

Fig. 1.

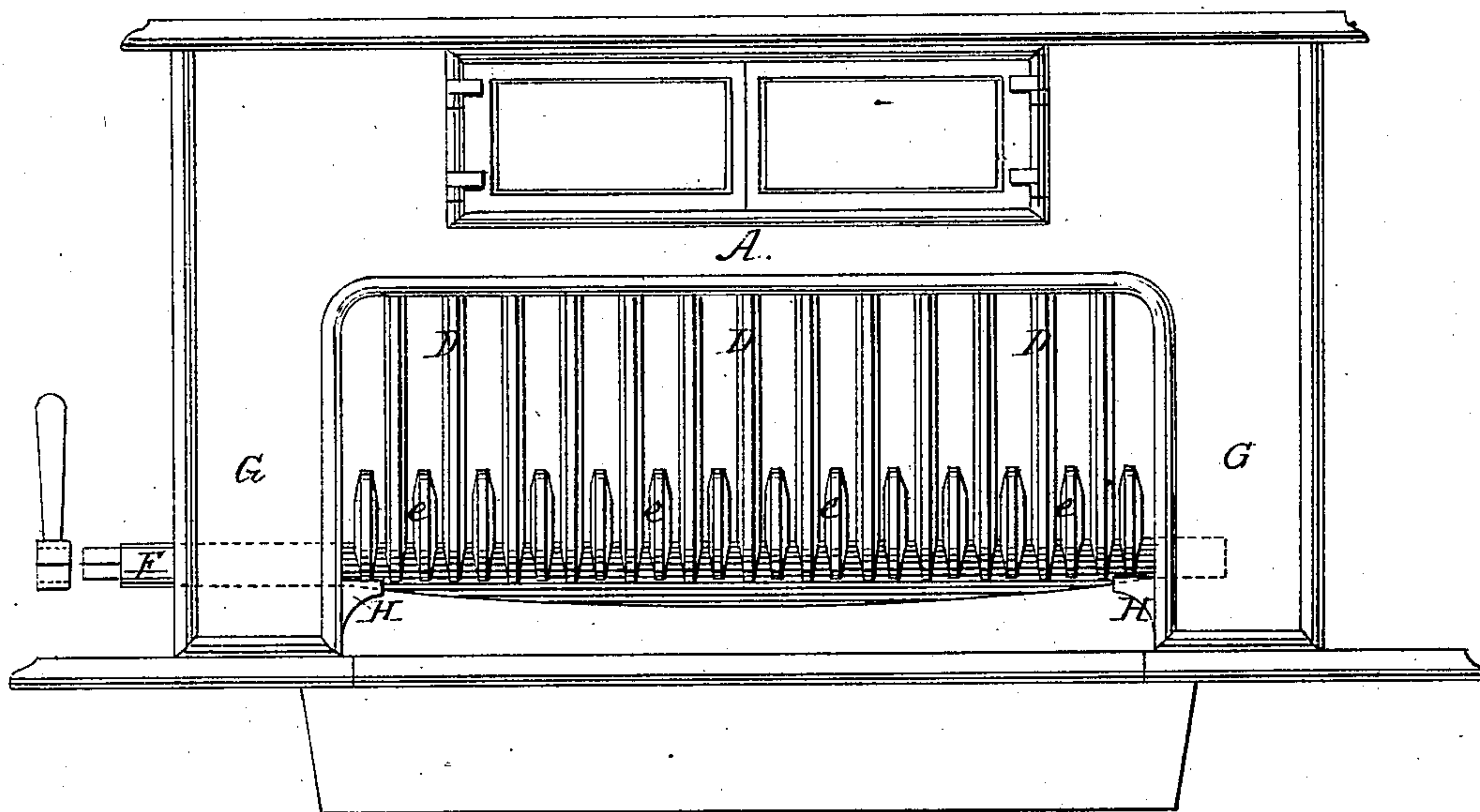


Fig. 2.

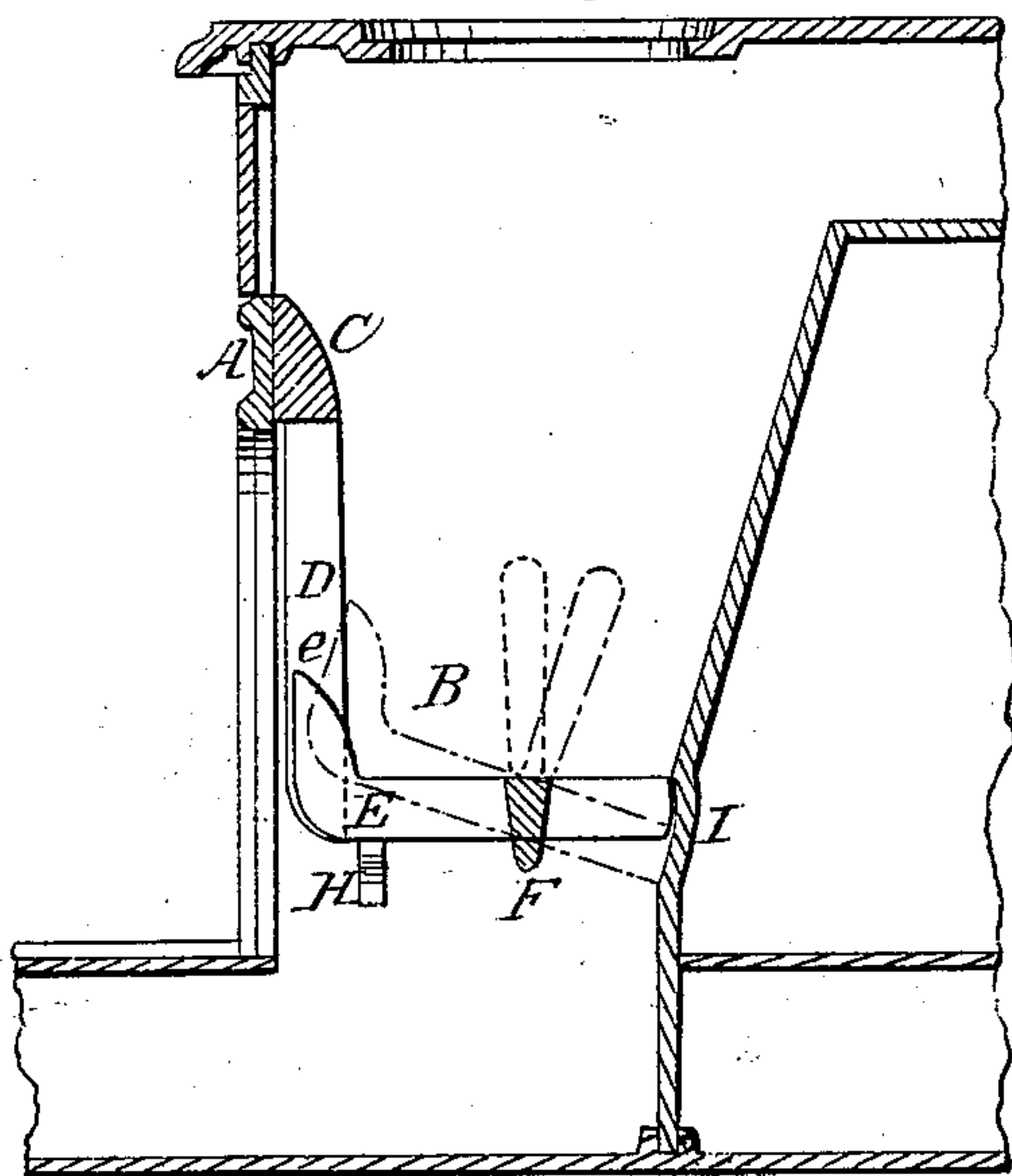


Fig. 3.

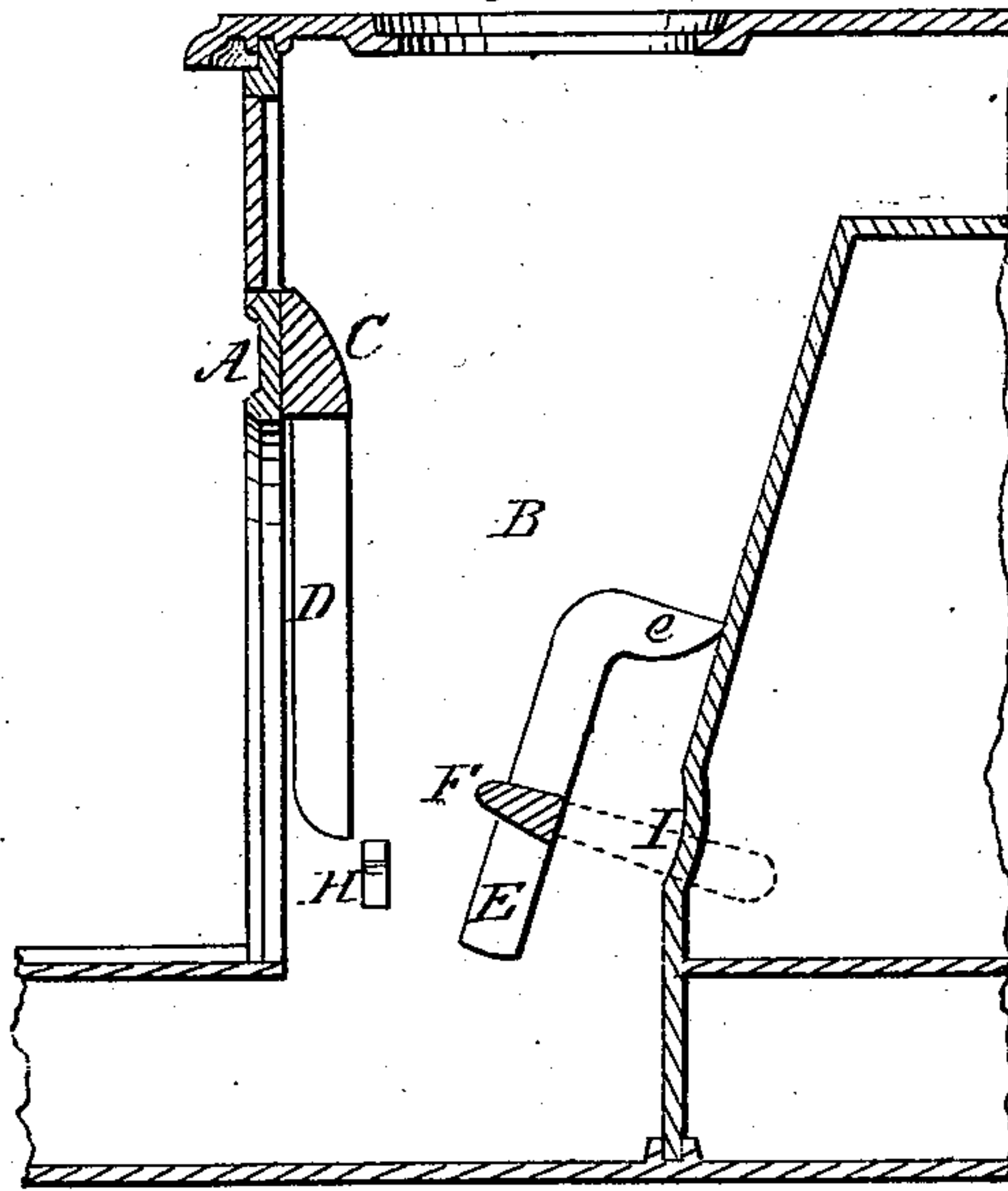
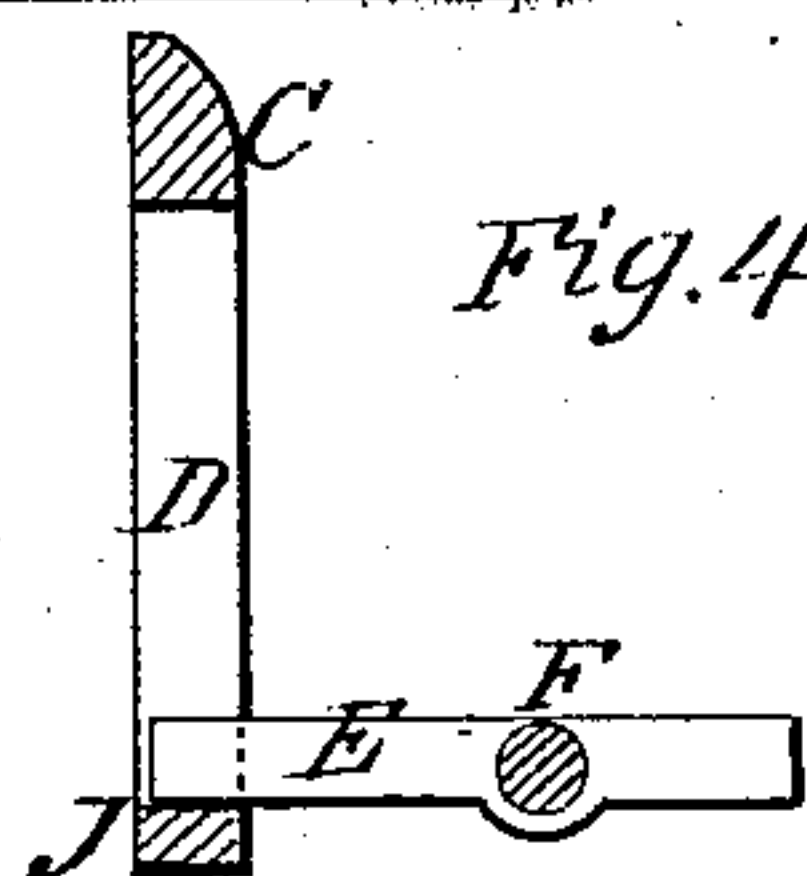


Fig. 4.



Witnesses.
Jas. H. Layman.
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By his Atty
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United States Patent Office.

CHARLES TRUESDALE, OF CINCINNATI, OHIO, ASSIGNOR TO HIMSELF AND WILLIAM RESOR & CO., OF SAME PLACE.

Letters Patent No. 92,906, dated July 20, 1869.

STOVE-GRATE.

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

To whom it may concern:

Be it known that I, CHARLES TRUESDALE, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Shaking and Dumping-Grate; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

This invention relates to a new and useful form of fire-grate, whereby the ashes may be sufficiently agitated to precipitate them into the ash-pit, or whereby, when desired, the entire contents of the grate may be emptied into the said pit.

Figure 1 is a front elevation of a cook-stove embodying my improvement.

Figures 2 and 3 are transverse sections, showing the normal and dumping-positions respectively.

Figure 4 shows a modification of my grate.

A represents the front portion of a cook-stove.

B, its fire-place.

The fixed portion of my grate consists of a horizontal bar, C, from which rigidly depend vertical or nearly vertical bars D, which are preferably somewhat further apart than in an ordinary grate.

The movable portion of the grate consists of a series of bars E, fastened to a rock-shaft, F, journalled in the jambs G, and projecting through one or both jambs, for convenience of handling.

The front ends of the bars E, occupy the lower portions of the interstices of the pendants D, and are preferably curved and pointed upward, as shown at *e*.

Lugs or rests H, projecting from the jambs, serve to support the front portions of the movable grate E F in its normal position. (See figs. 1 and 2.)

The lodgement of cinders at the rear of the movable grate E F, in the act of agitating, is prevented by the provision of the concave back or guard-plate I, concentric with the axis of said grate.

The stability of the movable grate when left to itself, is secured by placing the rock-shaft so far rearward, as to throw a preponderating weight in front of said shaft.

When it is desired to simply loosen and discharge the dust and ashes, the movable grate is slightly rocked or agitated, as indicated by the dotted lines in fig. 2. Agitation of the grate E F acts in a double way, namely, to detach and shake down the ashes and to effectually remove whatever slag, or other matter may clog the front bars, by the action between them of the curved ends of the fingers *e*.

While describing the preferred form of my invention, I reserve the right to vary the same in non-essential particulars; for example, a cross-bar or projection, J, at the bottom of the pendants D may be employed to support the front part of the moving grate, the upward curves or fingers *e* being omitted. (See fig. 4.)

I claim herein as new, and of my invention—

1. In the described combination, with a series of pendent front bars D, the series of interposed bottom bars E, upon the rock-shaft F, substantially as set forth.

2. In combination with the elements of the preceding clause, the upturned fingers *e* of the movable bars E, for the purpose designated.

3. The arrangement of pendent bars D, rock-shaft F, movable bars E, and rests H.

4. In this connection, the provision of the guard I, as and for the purpose explained.

In testimony of which invention, I hereunto set my hand.

CHARLES TRUESDALE.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.