

(No Model.)

T. ROSSER.
GRATE AND FLUE.

No. 450,040.

Patented Apr. 7, 1891.

Fig. 1.

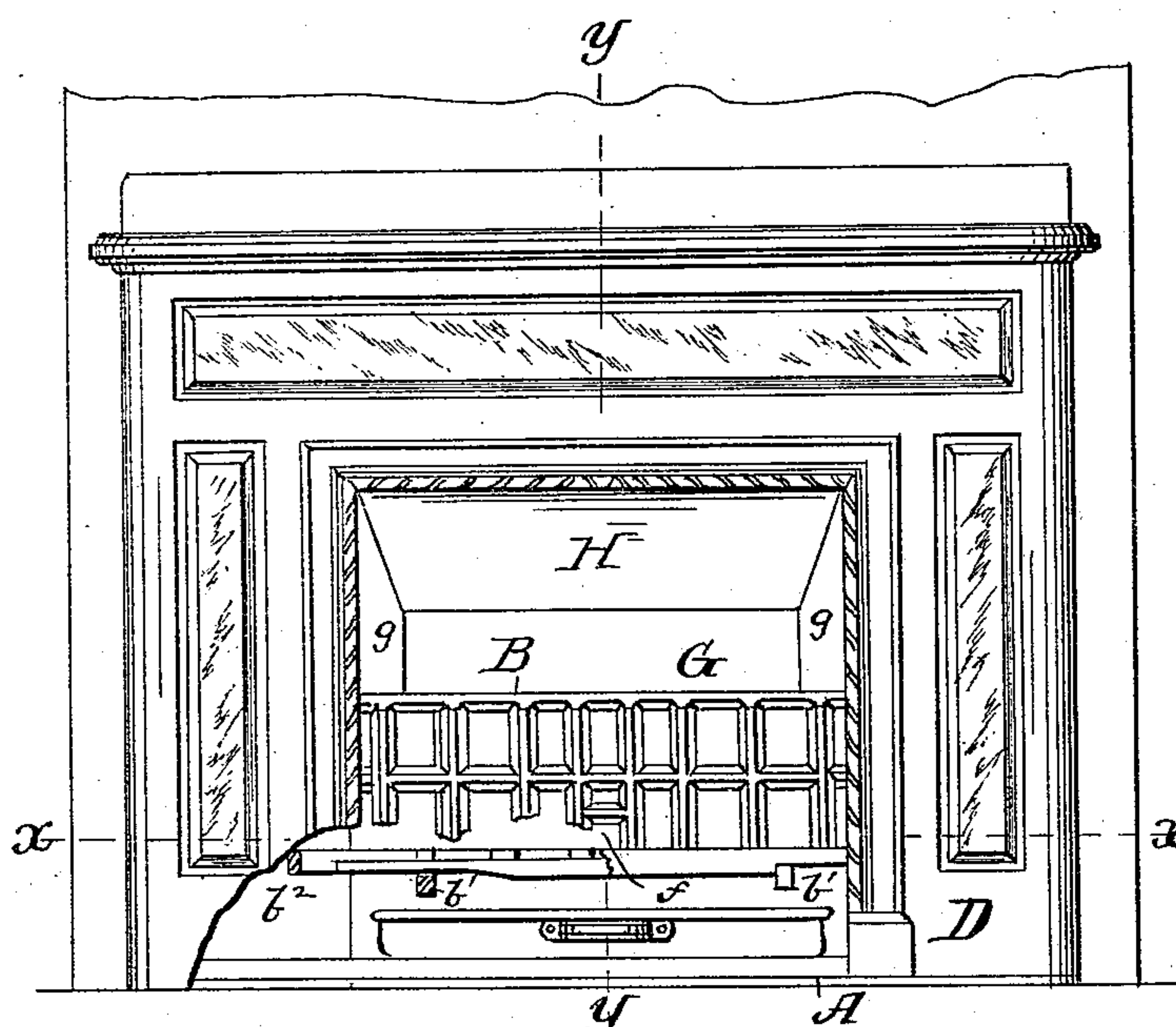


Fig. 2.

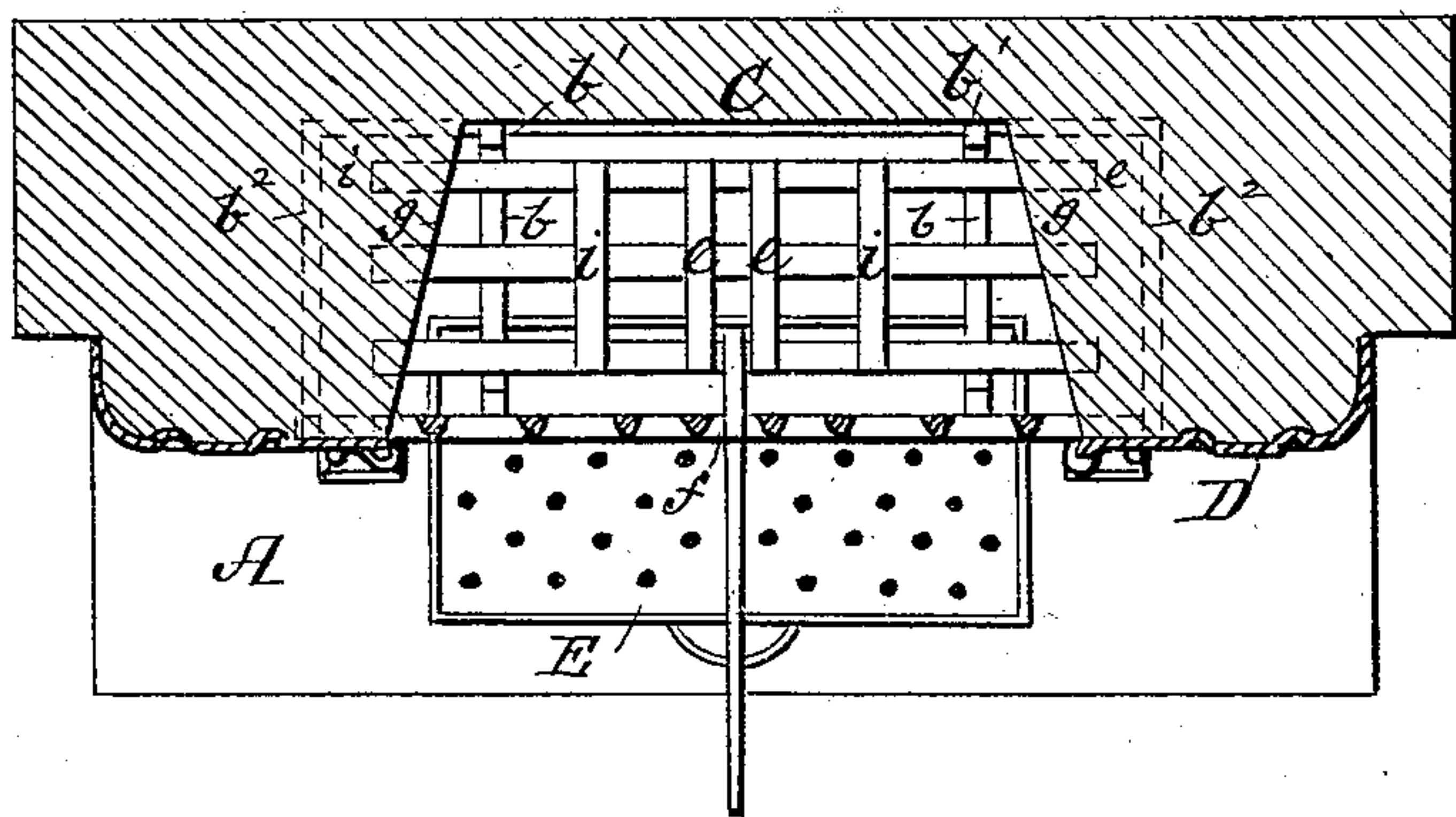


Fig. 3.

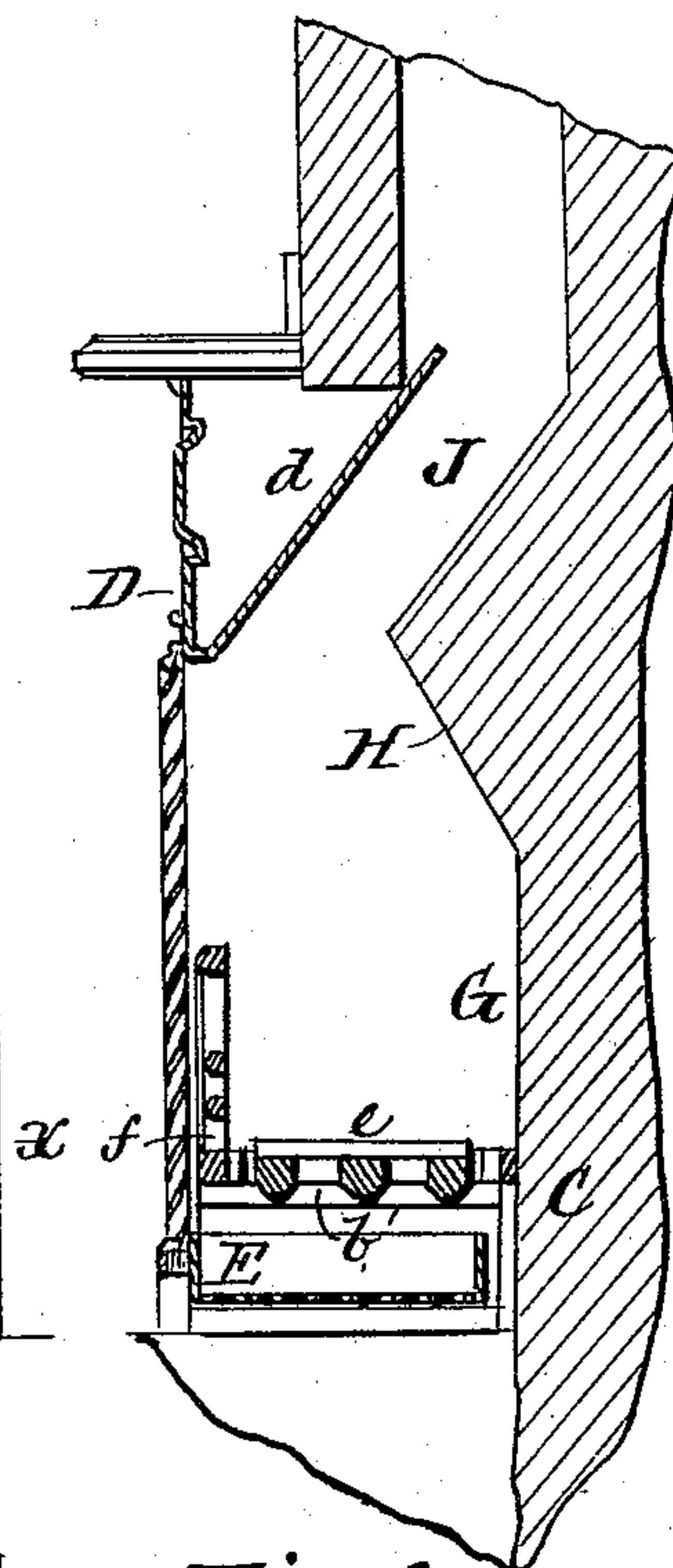
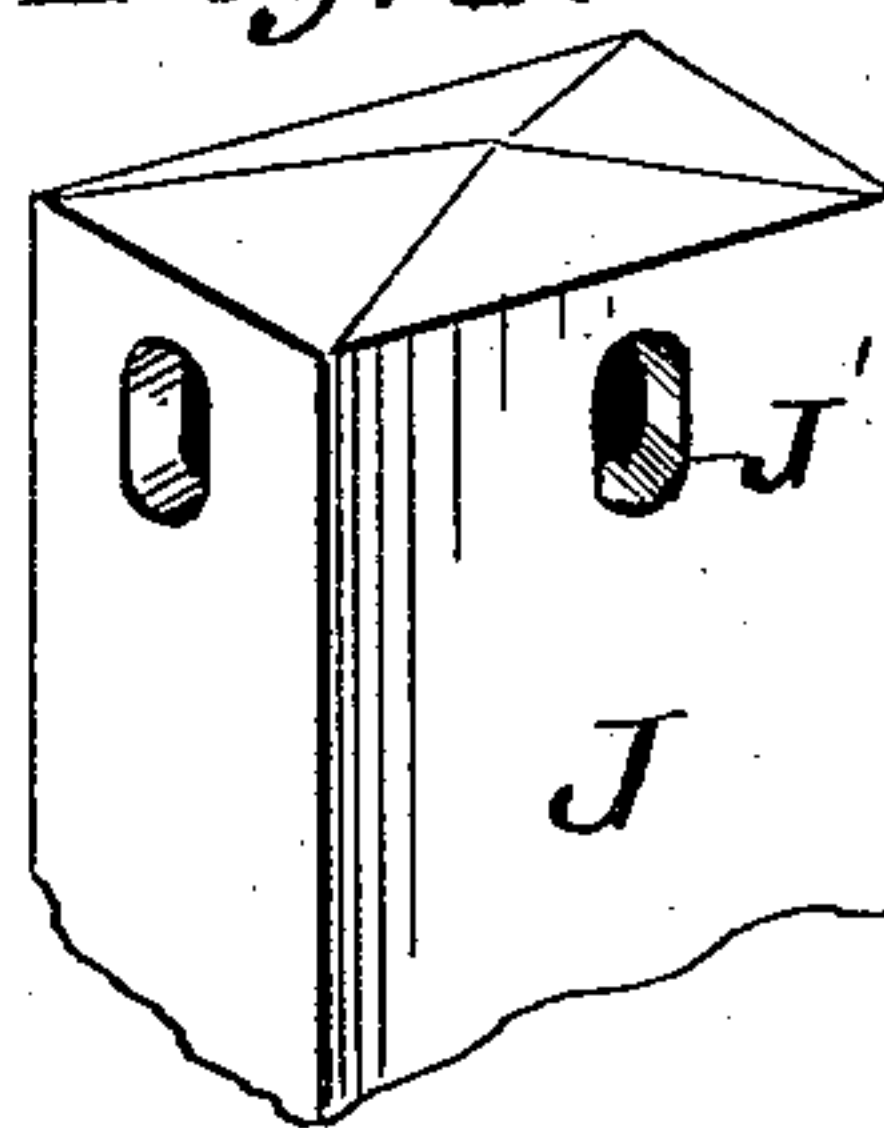


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

THOMAS ROSSER, OF BELLAIRE, OHIO.

GRATE AND FLUE.

SPECIFICATION forming part of Letters Patent No. 450,040, dated April 7, 1891.

Application filed April 2, 1890. Serial No. 346,323. (No model.)

To all whom it may concern:

Be it known that I, THOMAS ROSSER, a citizen of the United States, residing at Bellaire, in the county of Belmont and State of Ohio, have invented certain new and useful Improvements in Grates and Flues; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to fire-place fronts for open front of fire-place heaters, and has for its object to construct the mantel and the deflector out of a single piece of sheet metal, as hereinafter will be more fully described and claimed, and which is shown in the accompanying drawings, in which—

Figure 1 is a front view, parts being broken away, of a fire-place heater embodying my invention. Fig. 2 is a horizontal section on the line X X of Fig. 1. Fig. 3 is a vertical section on the line Y Y of Fig. 2. Fig. 4 is a perspective view of the chimney-top.

A represents the hearth of steel, above which the heater is located. The frame B is supported at a suitable distance above the bed in any desired manner, preferably on the back C and the mantel D. This frame is open intermediate its ends—i. e., there is an unobstructed space *b* between the bars *b' b'*, on which the grate E rests. This grate is thickened midway of its ends and limited in its movements by the bars *b² b²*, which are higher

than the bars *b' b'*. The lugs *e*, projecting up from the grate, are designed to receive the inner end of the poker when it is desired to shake the fire, the poker being thrust through openings *f* in the front grate, which is fastened at its ends to the front D. The back G and sides *g g* of the fire-boxes are brick, and the deflector H is preferably of metal, although any suitable material will answer equally well.

The chimney J is tile and closed at the top, being provided in its sides with openings for the escape of smoke and products of combustion.

The front D is of steel, and the part cut therefrom immediately over the fire-chamber is turned up to form the deflector *d*.

The ash-pan K is perforated to permit the entrance of air.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The herein-described metal mantel having a portion corresponding with the position of the fire-box cut therefrom and bent up, substantially as and for the purpose described.

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

THOMAS ROSSER.

Witnesses:

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D. THEOBALD.