

(No Model.)

E. H. BRADLEY.

COKE OVEN FRONT.

No. 397,107.

Patented Feb. 5, 1889.

Fig. 1.

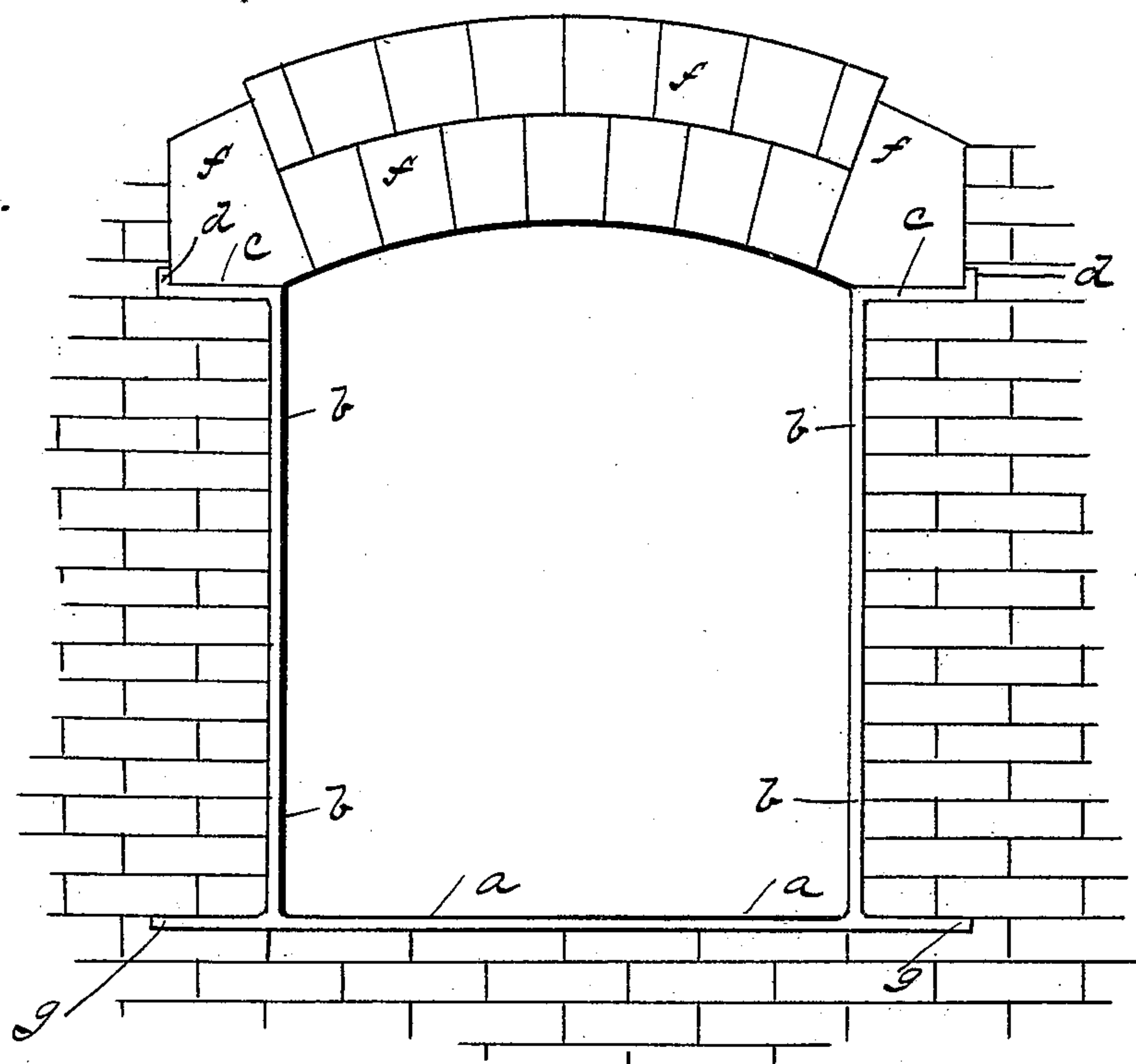
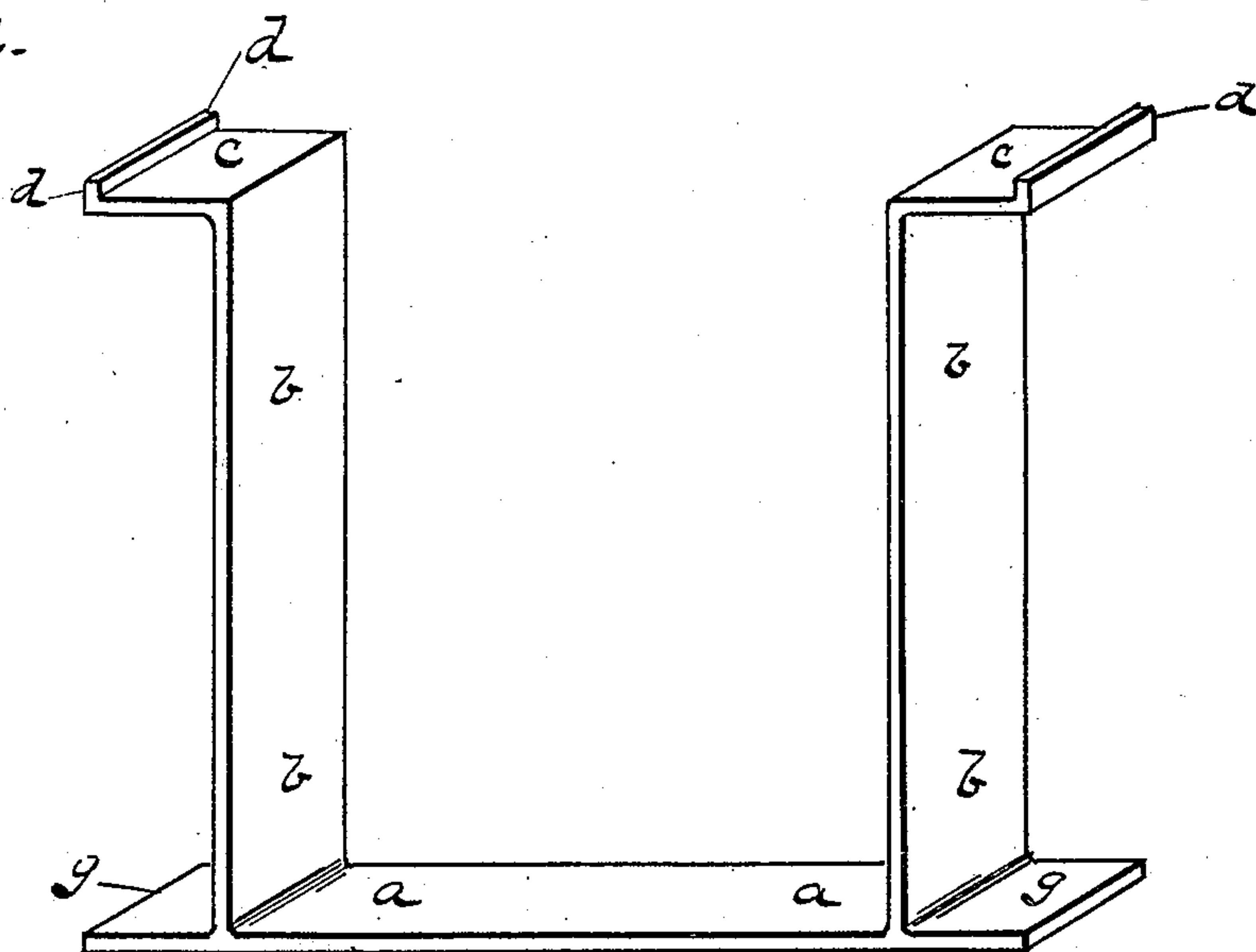


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDWARD H. BRADLEY, OF LAYTON, PENNSYLVANIA.

COKE-OVEN FRONT.

SPECIFICATION forming part of Letters Patent No. 397,107, dated February 5, 1889.

Application filed August 17, 1888. Serial No. 282,961. (No model.)

To all whom it may concern:

Be it known that I, EDWARD H. BRADLEY, a citizen of the United States, residing at Layton, in the State of Pennsylvania, have invented certain new and useful Improvements in Coke-Oven Fronts; 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in coke-oven door-frames; and it consists of a casting having a broad flat base, two vertical uprights, and outwardly-extending flanges, on which the arch over the door is constructed, together with certain other details of construction, as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a front elevation of a coke-oven doorway provided with my improved frame. Fig. 2 is a perspective view of the frame separate from the oven.

To put my invention into practice, I construct a frame of cast-iron, having a broad flat base, *a*, on which are formed at a short distance from each end two vertical uprights, *b*, the distance between the two being equal to the width of the doorway for which the frame is intended. At the top of these side pieces, *b*, and formed integral therewith, are two hori-

zontal portions, *c*, each provided at its extremity with a short vertical flange, *d*. These several portions of the frame are all of the same depth and thickness.

By reference to Fig. 1 on the drawings it will be seen that this frame is especially adapted for coke-oven doors. The frame is placed in position and the bricks built up about the sides *b*, the arch *f* resting on the horizontal portions *c* at the top of the sides *b* of the frame, the small vertical flanges *d* preventing the arch from spreading or otherwise becoming deranged.

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

A coke-oven door-frame consisting of the base *a*, the vertical sides *b*, formed integral therewith, located a short distance from the ends of the base, the horizontal outwardly-extending portions *c* at the top of the sides *b*, and the vertical flanges *d*, formed on the horizontal portions *c*, as and for the purpose described.

In testimony that I claim the foregoing I hereunto affix my signature this 5th day of January, A. D. 1888.

EDWARD H. BRADLEY. [L. s.]

In presence of—

C. C. LEE,

M. E. HARRISON.