

J. L. Mott.

Iron Structure.

N^o 11,383.

Patented Jul. 25, 1854.

Fig. 3. Sectional view.

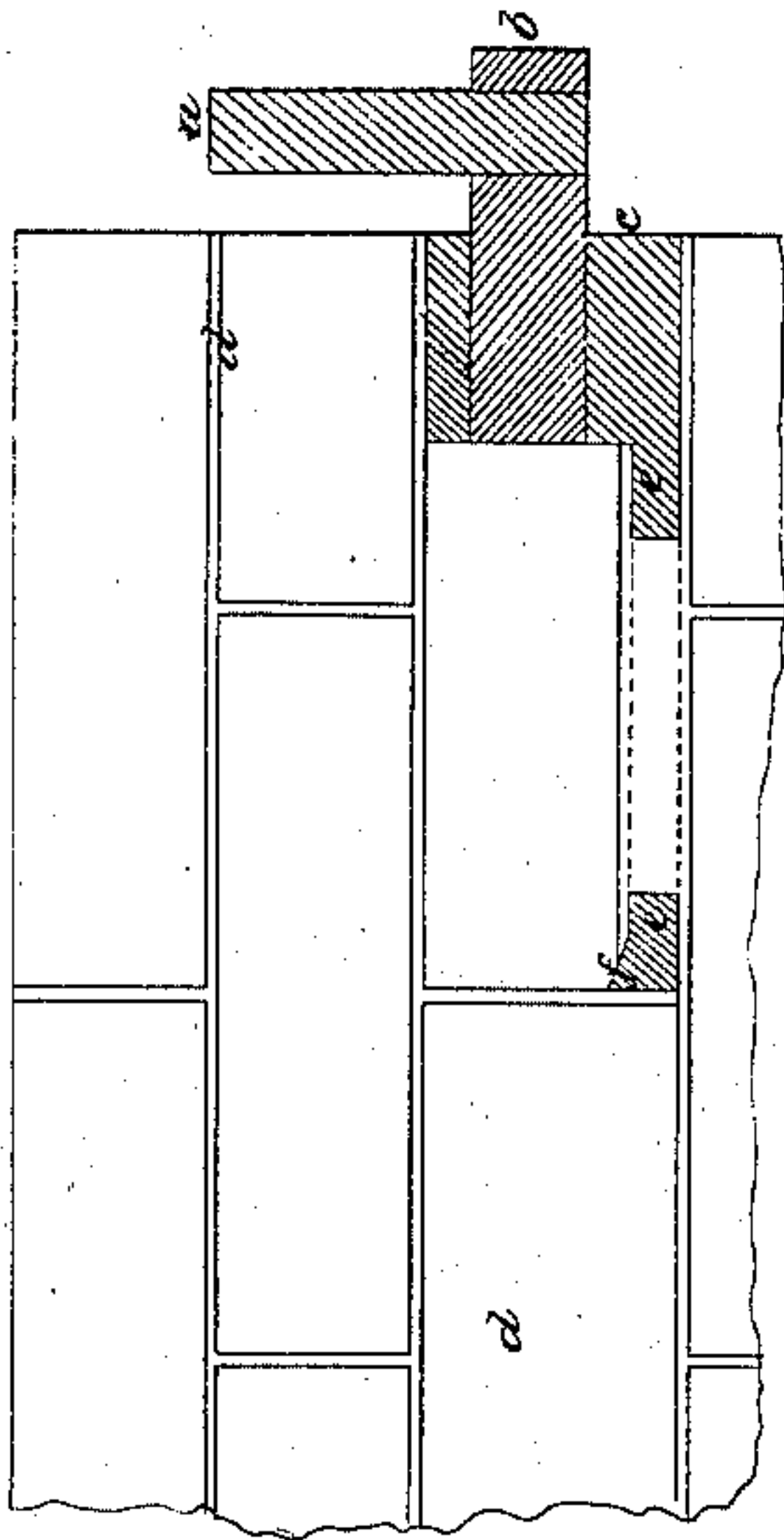


Fig. 2. Sectional view.

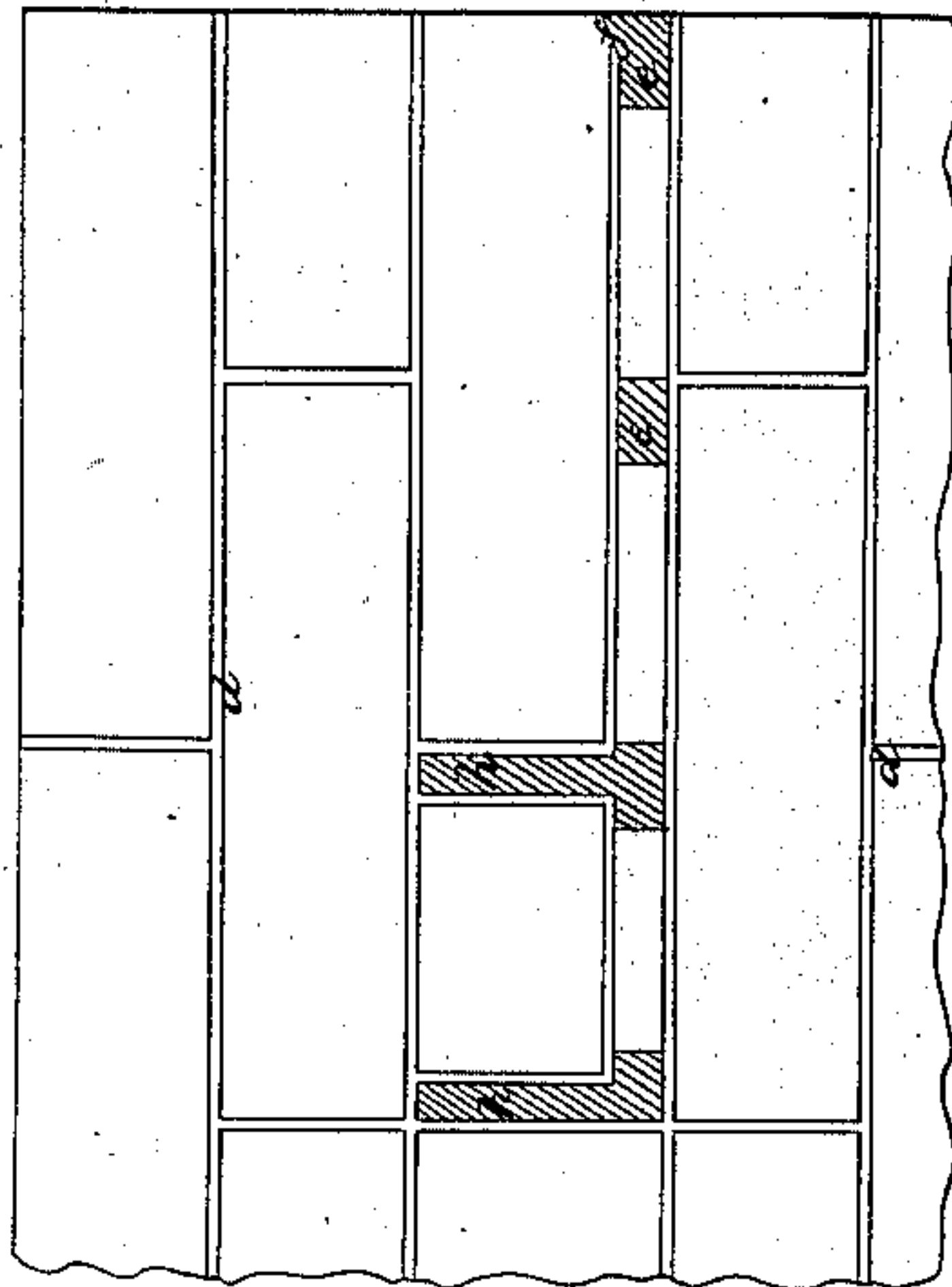
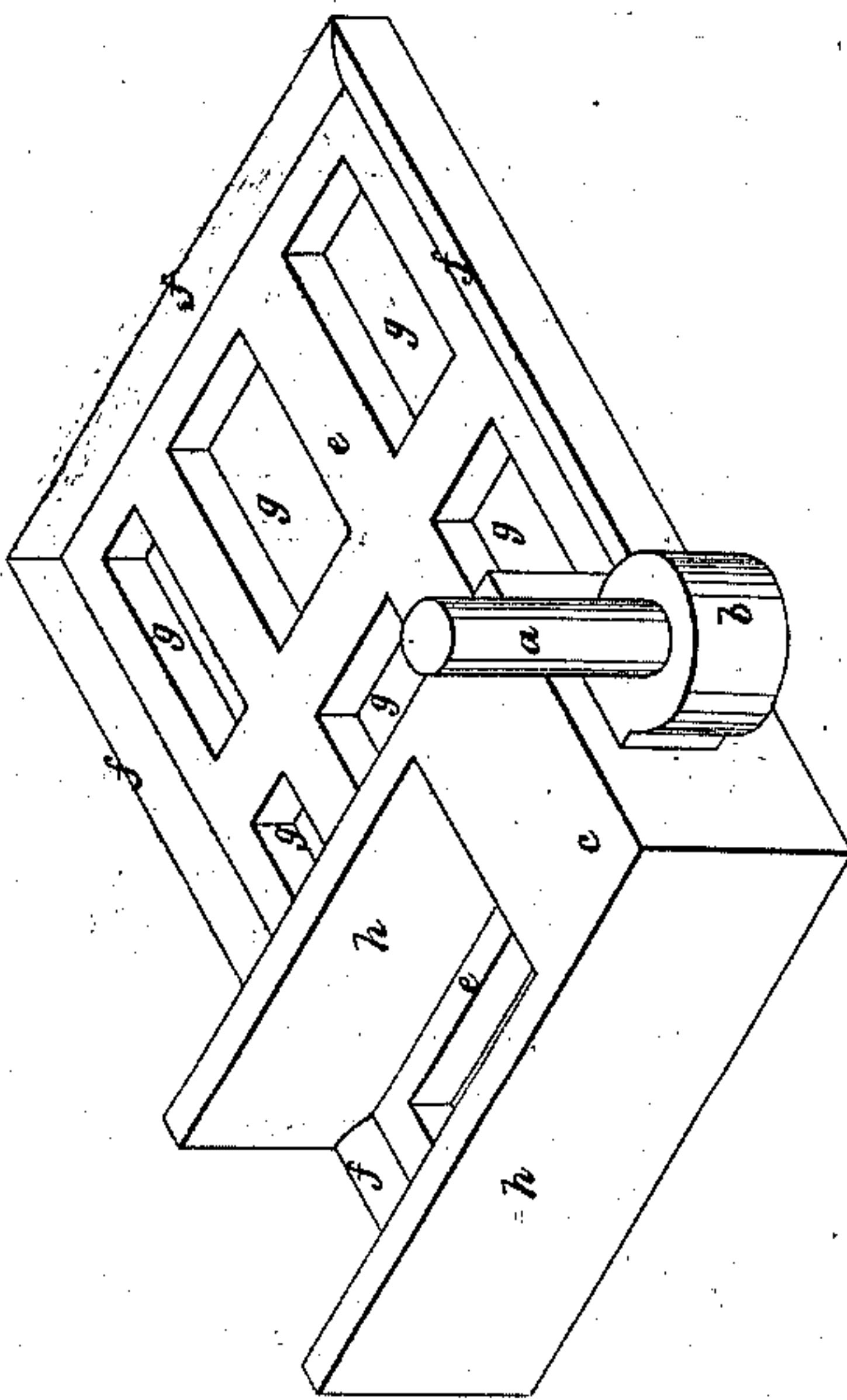


Fig. 1.



Witnesses:
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UNITED STATES PATENT OFFICE.

JORDAN L. MOTT, OF MOTT HAVEN, NEW YORK.

MODE OF SECURING STAPLES TO WALLS.

Specification of Letters Patent No. 11,383, dated July 25, 1854.

To all whom it may concern:

Be it known that I, JORDAN L. MOTT, of Mott Haven, New York, have invented an Improvement in Cast-Iron Anchors for Securing Hinge Staples and Eyes in Walls, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

10 Figure 1, is a perspective view of the improved anchor with a staple; Fig. 2, a vertical section thereof through the staple and wall; Fig. 3, another section at right angles to Fig. 2.

15 The same letters indicate like parts in all the figures.

Wrought iron hinge staples, or eyes, for doors and gates, have heretofore been secured in walls by means of wings or flat stems made of wrought iron, built in the mason work, but these wings or stems, which are forged extensions of the staple, do not form a secure connection with the wall, and soon become loose.

25 The object of my invention is so to form the anchor that it will constitute an integral part of the wall, and afford a secure and permanent support for the staple or eye; and to this end my invention consists in making the anchor of cast iron cast onto the shank of the staple or eye, with the part cast onto the wrought iron shank of the staple made in the form and dimensions of the end of a brick or stone used in constructing the mason work, and with thin wings projecting therefrom, and provided with ribs or flanches to be interlocked with the mason work.

30 In the accompanying drawings *a* represents the wrought iron staple for a hinge with its shank *b* secured by casting thereon a block of metal *c*, representing in form and dimensions the end of a brick or stone such as may be used for the mason work *d*, in which it is to be built. This block of metal *c*, is cast with a wing *e*, extending therefrom at one side and at the back, the under side being flush with the bottom of the block; and it should be made thin, the upper edge thereof being provided with a flanch or rim *f*, extending all around, and with ribs *h*, *h*, forming a hollow extension of the block

c. For the purpose of avoiding too great a weight, and to provide lodgment for the mortar, the wing is formed with openings or mortises *g*. This anchor is to be cast in a suitable mold of the required form, and adapted to the reception of a wrought iron staple or an eye, if desired.

It will be seen, that when the anchor is built in a wall, as represented in Fig. 2, that the block *c*, cast onto the shank, secures ample support to the shank, which cannot become loose therein, the contraction of the cast iron, in cooling, having the effect thoroughly to draw itself tight, while the thin wing which extends into the wall, and which is interlocked therewith by the flanches or ribs, and by the apertures for the reception of the mortar or cement, effectually binds the anchor, so that it cannot be drawn out or shaken loose.

I do not wish to be understood as limiting myself to any special dimensions of the parts, so long as the block *c*, is made of sufficient size to hold and give the required support to the shank of the staple, and the wing with its flanches or ribs, is made of sufficient proportional size to be thoroughly interlocked with the wall, and to sustain the superincumbent weight thereof, to hold it firmly in place.

I do not claim the union of cast and wrought iron by running the molten iron onto the wrought iron, as this has long since been known and used. But

What I do claim as my invention and desire to secure by Letters Patent, is

Forming the anchor of a block cast onto the shank of a wrought iron staple, or eye, and provided with a thin wing having flanches or ribs, all cast and forming one substance with the block substantially as specified, whereby the cast iron part shall hold the shank firmly, and at the same time become an integral part of the mason work, and be firmly held therein by the superincumbent weight as described.

JORDAN L. MOTT.

Witnesses:

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