

(No Model.)

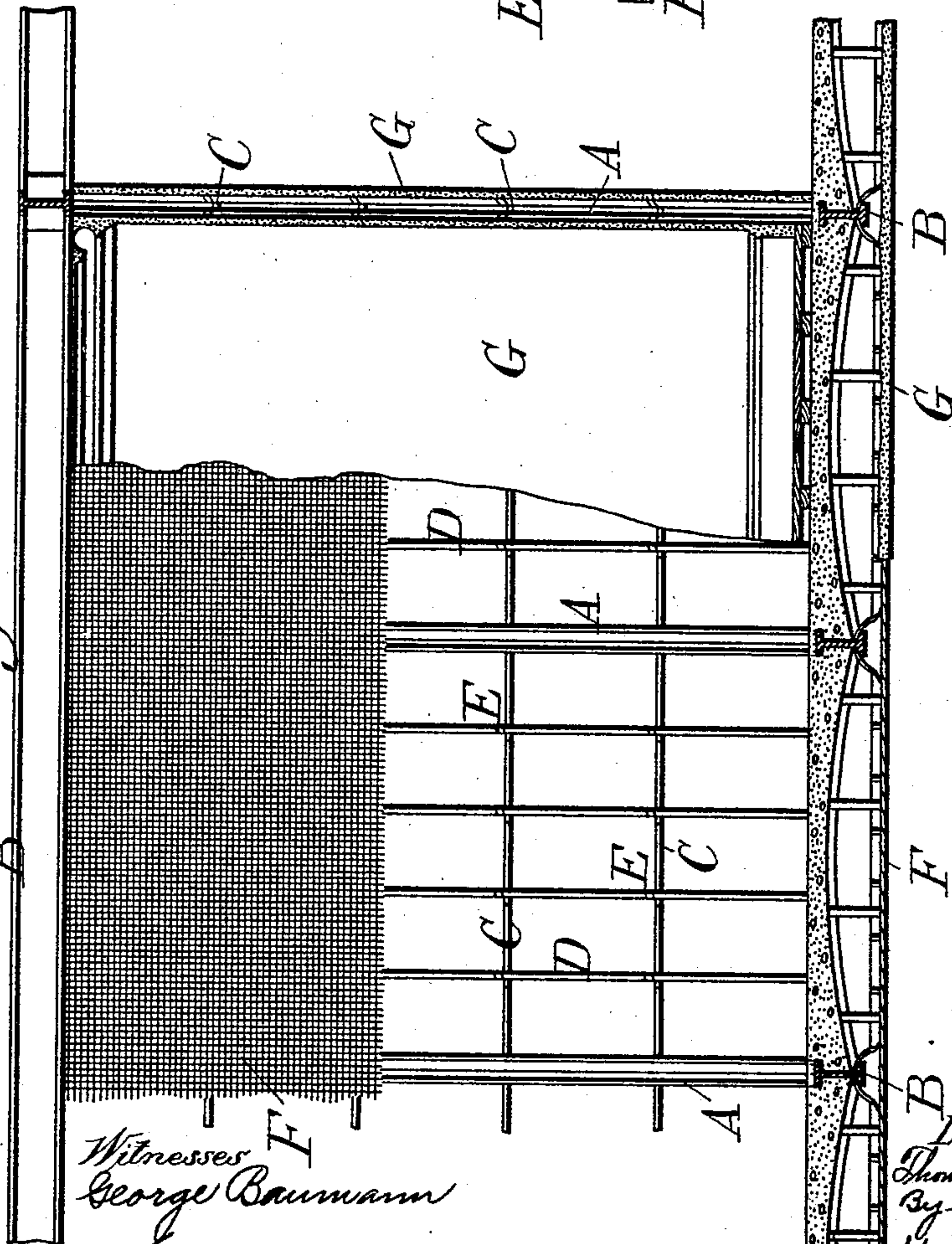
T. L. BANKS.

FIREPROOF FRAMING FOR PARTITION OR OTHER WALLS.

No. 529,154.

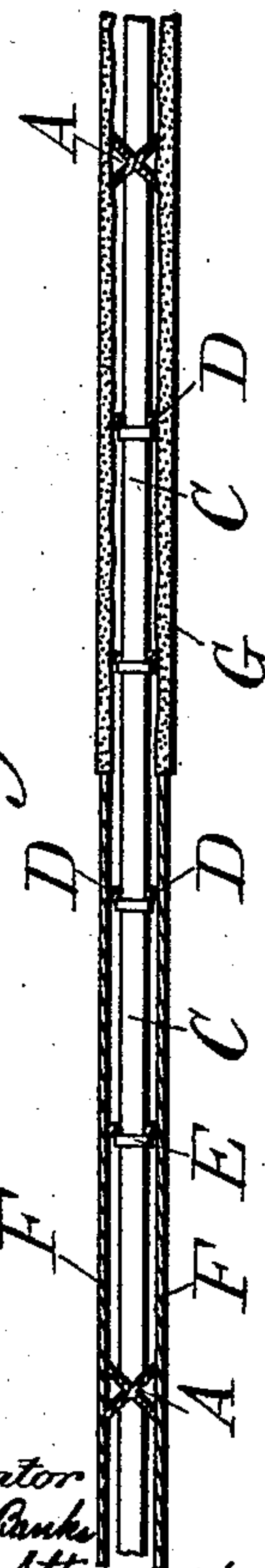
Patented Nov. 13, 1894.

Fig. 1.



Witnesses  
George Baumann  
J. C. Connor

Fig. 2.



Inventor  
Thomas L. Banks  
By his Attorneys  
Howson and Howson

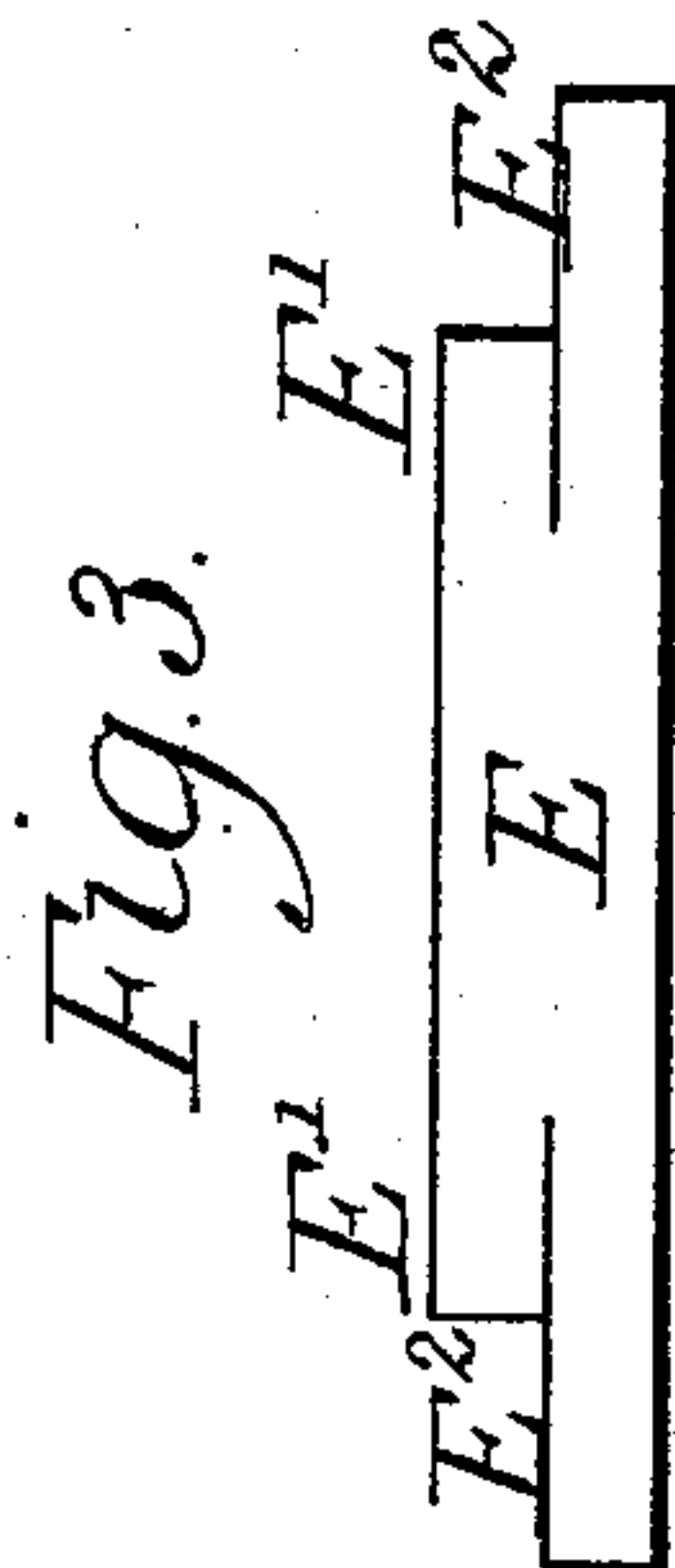


Fig. 4.

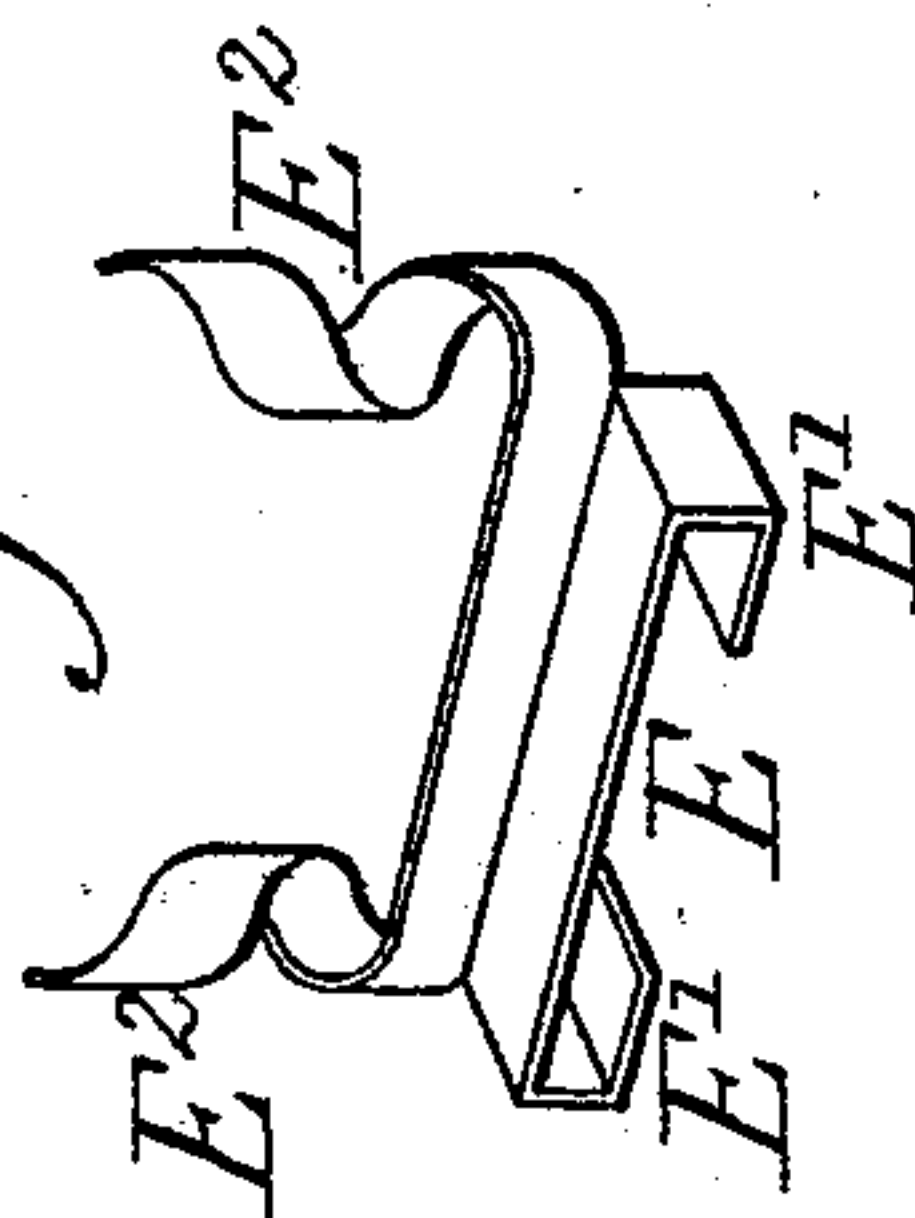


Fig. 5.

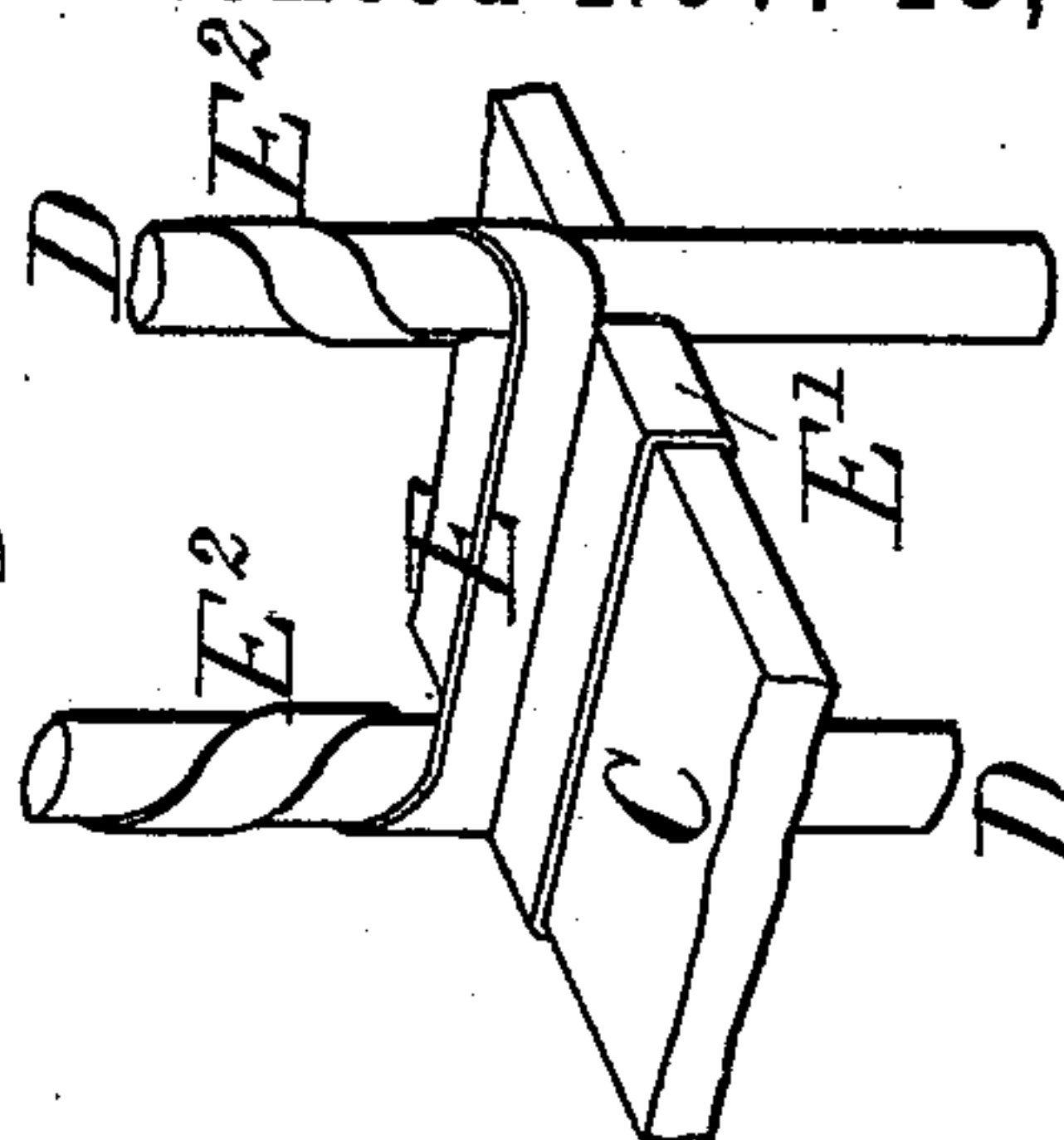
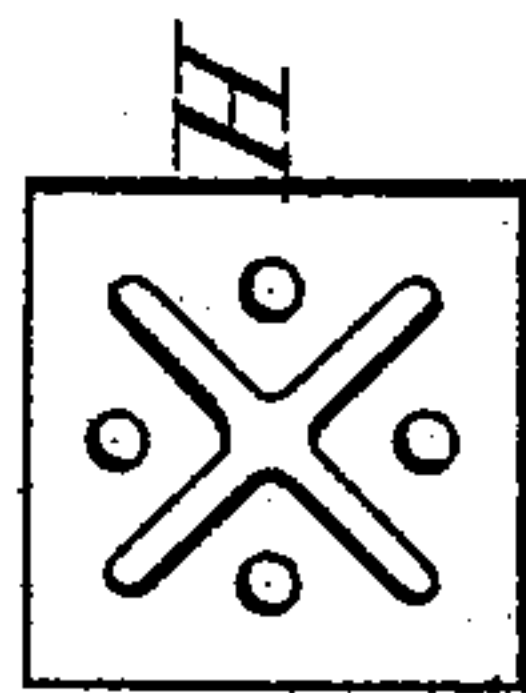


Fig. 6.





# UNITED STATES PATENT OFFICE.

THOMAS LEWIS BANKS, OF LONDON, ENGLAND.

## FIREPROOF FRAMING FOR PARTITION OR OTHER WALLS.

SPECIFICATION forming part of Letters Patent No. 529,154, dated November 13, 1894.

Application filed July 24, 1894. Serial No. 518,443. (No model.) Patented in England May 19, 1893, No. 10,045.

*To all whom it may concern:*

Be it known that I, THOMAS LEWIS BANKS, a citizen of England, residing at Luidores, 3 Branstone Road, Kew Gardens, London, in the county of Surrey, England, have invented certain new and useful Improvements in Fireproof Framing for Partition or other Walls, (for which I have received Letters Patent in Great Britain, No. 10,045, dated May 19, 1893,) of which the following is a specification.

My invention relates to an improved construction of fireproof metal framing for partition and other walls. For this purpose I employ metallic standards which are by preference of a cruciform cross section but any other suitable section may be employed, and they may either be cast, rolled or built up. The ends of these standards are fixed in sockets on the girders or joists or are otherwise secured thereto. Extending from one standard to another are horizontal bars of either a flat, T, channel or other section arranged at certain distances apart in height and having their ends suitably secured to the standards. Against the edges of such bars between the standards are fixed upright rods or angle bars at suitable distances apart, these being secured to the horizontal bars by clips formed of sheet metal, cut so as to have four ends, two of which are bent round the edges of the horizontal bar, so as to grip the same while the other two longer ends are coiled tightly round the vertical rods or bars situated opposite each other on each side of the horizontal bar. The ends of the vertical rods or bars are fixed to sockets on the girders or joists, or otherwise, like the standards, or they may be passed through holes drilled in the flanges of the girders. To each side of the metal framing thus constructed is fixed the metal lathing, being secured by wire clips, or otherwise, and on this lathing is then laid the cement or plaster, which is effectually keyed into the same. This construction of partition or other wall affords great strength combined with lightness, and it can be erected cheaply and rapidly.

The accompanying drawings show by way

of example a partition constructed according to my above described invention.

Figure 1 shows an elevation. Fig. 2 shows a horizontal section to an enlarged scale and Figs. 3, 4 and 5 show enlarged details of the metal clip, and Fig. 6 is a plan view of a socket for the metal standards.

A A A are metal standards, here shown of cruciform section but which may be of H or other suitable section. They are fixed in any convenient manner to the iron joists B B of the floor and ceiling such as by sockets H as shown in plan at Fig. 6 and to them at suitable distances apart are fixed horizontal bars C C which may either be flat as shown or of any other section, their ends being fixed to the standards A either by angle iron brackets bolted or riveted thereto, or by any other suitable means. To each side of these bars are fixed metal rods D D either of a round section as shown, or of any other section, these being secured to the bars by metal clips E which consist of a strip of metal as shown at Fig. 3, having their ends slit into two parts E' E<sup>2</sup> and being then bent up to angular form so that while the ends E' are bent round the edges of the bar C so as to secure the clips to this, the ends E<sup>2</sup> can be bent round the rods D as shown at Figs. 4 and 5, and thereby secure the rods to the bars. The ends of the rods D can be secured in any convenient manner to the floor and ceiling. To the rods D is then secured the metal lathing F consisting by preference of interlaced twisted metal strips, this being fastened to the rods by binding wire or suitable metal clips, and upon the metal lathing is then laid the plaster G, for which the metal lathing serves as an effectual key.

Having thus described the nature of my invention and the best means I know for carrying the same into practical effect, I claim—

1. A fire-proof framing for partition and other walls consisting of the combination of metal standards, such as A, fixed to the floor supports, horizontal metal bars, such as C, secured to the standards, vertical metal rods, such as D, on opposite sides of the horizon-

tal bars for attachment of metal lathing and plaster, and metal clips, such as E, serving to secure the said rods to the horizontal bars, substantially as described.

5 2. Metal clips E for securing vertical rods or horizontal bars of a partition, having parts E' adapted to be bent round the horizontal bars, and parts E<sup>2</sup> adapted to be bent round the vertical rods, substantially as described.

10 In testimony whereof I have signed my name to this specification, in the presence of

two subscribing witnesses, this 12th day of July, A. D. 1894.

T. LEWIS BANKS.

Witnesses:

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