

(No Model.)

L. A. MITCHELL.

WALL AND CEILING OF BUILDINGS.

No. 318,196.

Patented May 19, 1885.

Fig. 1.

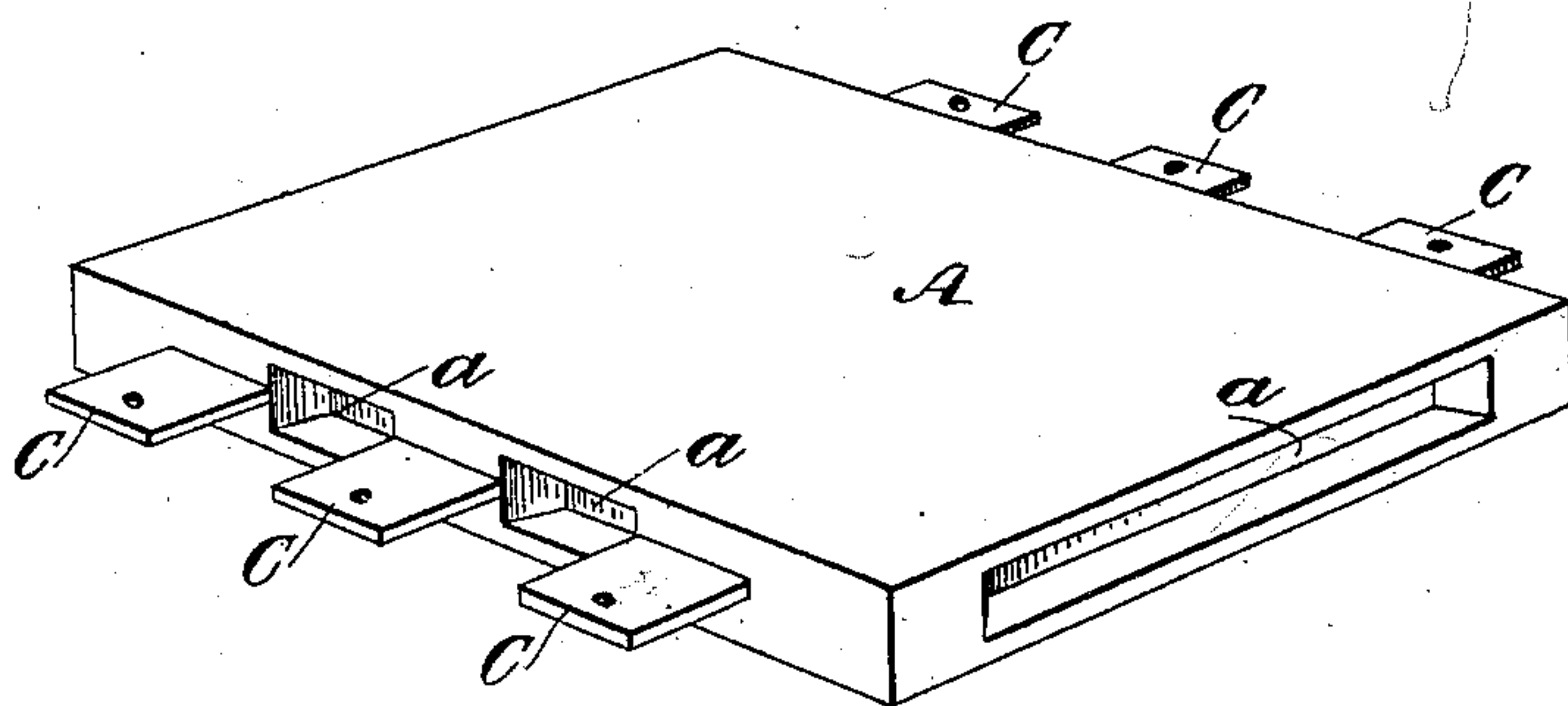


Fig. 2.

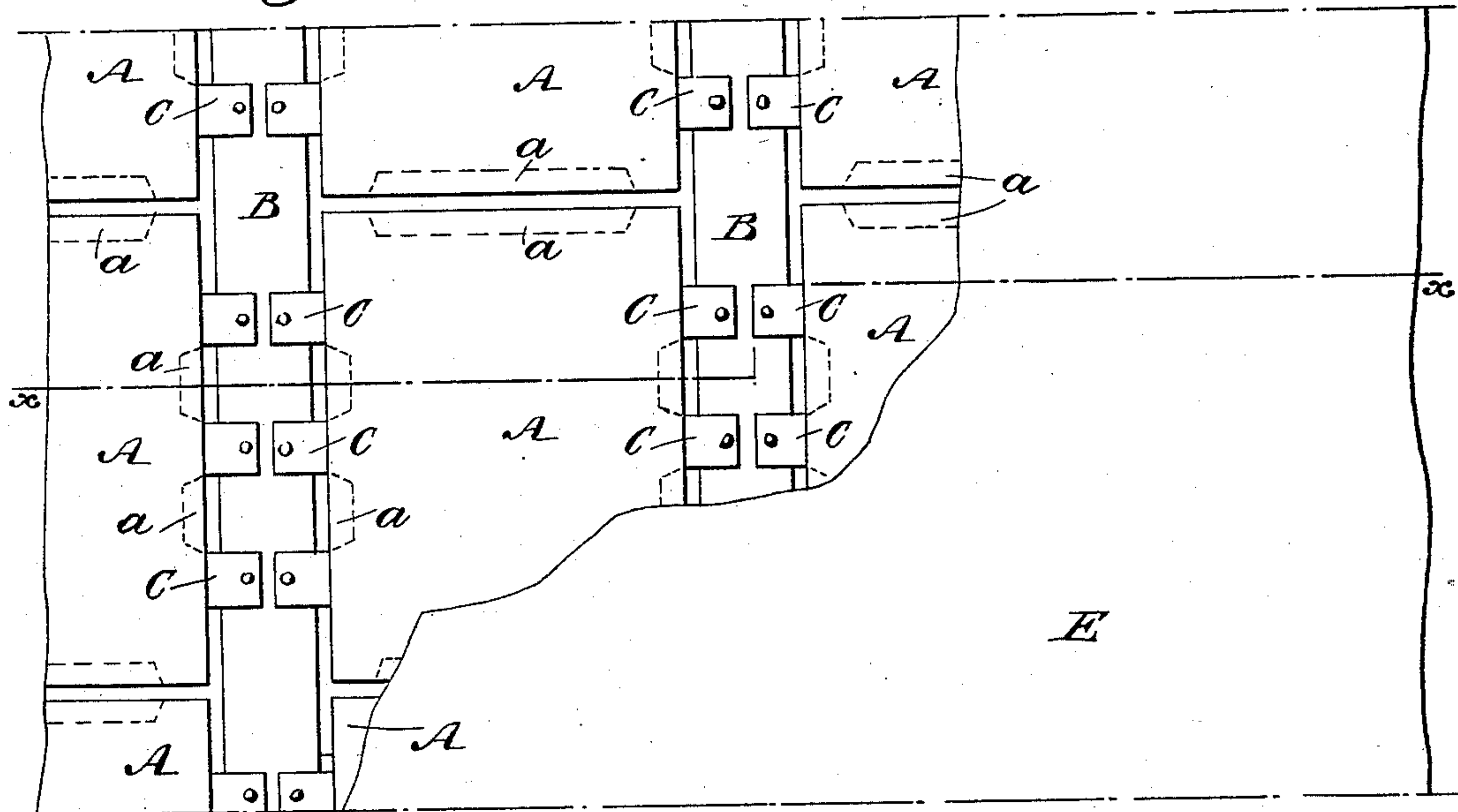
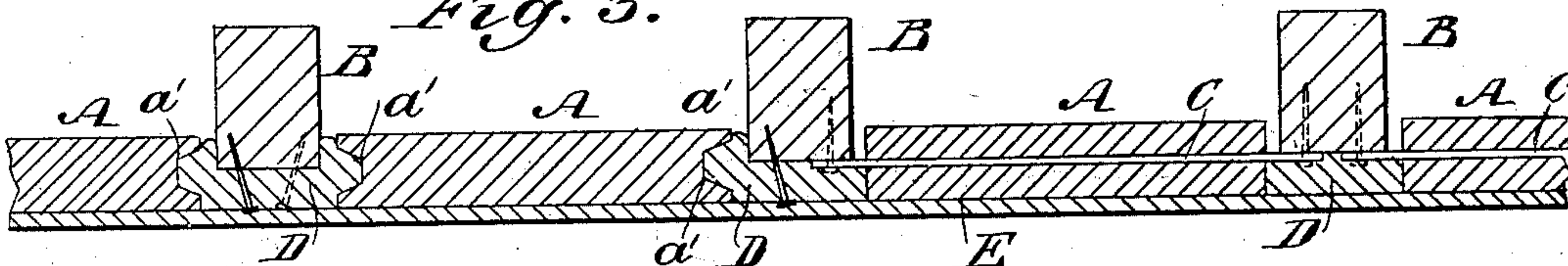


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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WALL AND CEILING OF BUILDINGS.

SPECIFICATION forming part of Letters Patent No. 318,196, dated May 19, 1885.

Application filed December 4, 1884. (No model)

To all whom it may concern:

Be it known that I, LEWIS A. MITCHELL, of Elizabeth, in the county of Union and State of New Jersey, have invented a new and useful Improvement in Cement Blocks for Walls and Ceilings, of which the following is a full, clear, and exact description.

This invention relates to cement or artificial-stone blocks, designed more especially for use in the construction of the walls and ceilings of buildings; and the invention consists in forming the blocks with fastening-plates and recesses at the edges, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of one of my new cement blocks to be applied to the studding or beams for forming a wall or ceiling. Fig. 2 is a broken front elevation of a wall or ceiling made in accordance with my invention, showing the joists or studding, and Fig. 3 is a sectional elevation of the same taken on the line *x x* of Fig. 2.

A represents the cement blocks, molded, preferably, from a water cement composed of forty-four parts plaster-of-paris, nineteen parts sand, twenty-one parts ashes, thirteen parts lime, and three parts Rosendale or other similar cement. This or other cement or composition mixture may be used. It is pressed or poured into a suitable mold of a size, preferably, to make the blocks about one and one-quarter inch thick and twelve by sixteen inches surface, (more or less,) the size being suitable for the blocks to go between the beams or studding B, where they will be secured by the strips C or other suitable means. At the edges the blocks A are formed with the recesses *a*, as shown clearly in Figs. 1 and 3. The blocks A being secured

to and between the studding B, the space between the edges of the blocks and over the edges of the studding will be filled by the cement, plaster, or other material D, put on with a trowel. This material will fill into the recess *a*, as shown at *a'*, Fig. 3, and act to key the blocks to each other and to the studding, and make them firm and secure. After the material D has been put in place and has become set the wall is ready for the outer finishing coat, E, which may be put on with a trowel, the same as with ordinary lath-and-plaster walls. The strips C or other fastenings may be of metal, wood, or other suitable material, and are by preference molded in the blocks A, so as to project at the sides thereof, as shown.

A wall made as described is very firm and cheap, as no lath is required and no plaster, save the finishing coat, and there being no wood about the wall it is a great safeguard against and prevents the rapid spreading of fire; also, being thick and heavy, no deafening is required, as no ordinary sounds can be heard through it.

The composition described herein forms the subject-matter of another application for a patent of even date herewith.

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

1. As a new article of manufacture, the cement block A, having fastening-plates C at its edges, and formed with recesses *a* between the fastening-plates C, substantially as described.

2. The block A, formed with recesses *a* at its upper edge and lower edge, and with similar recesses at its side edges, in combination with the fastening-plates C, that pass through the block, substantially as described.

LEWIS A. MITCHELL.

Witnesses:

HORACE MARSH,
CHAUNCEY A. RYDER.