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DRAFTSMAN.

No. 859,947.

PATENTED JULY 16, 1907.

S. M. KEMP.
REINFORCED CONCRETE BUILDING BLOCK.
APPLICATION FILED OCT. 6, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

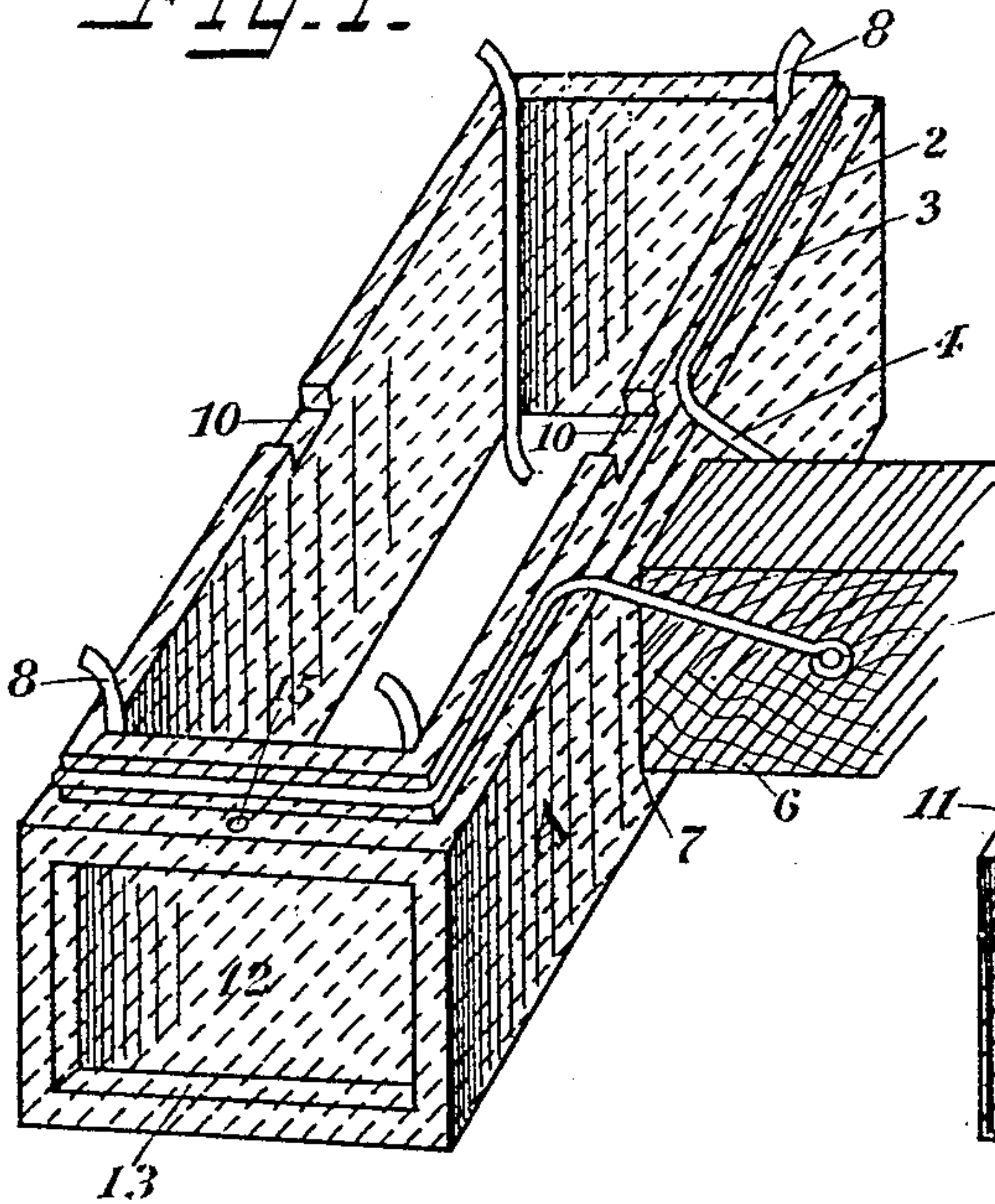


Fig. 2.

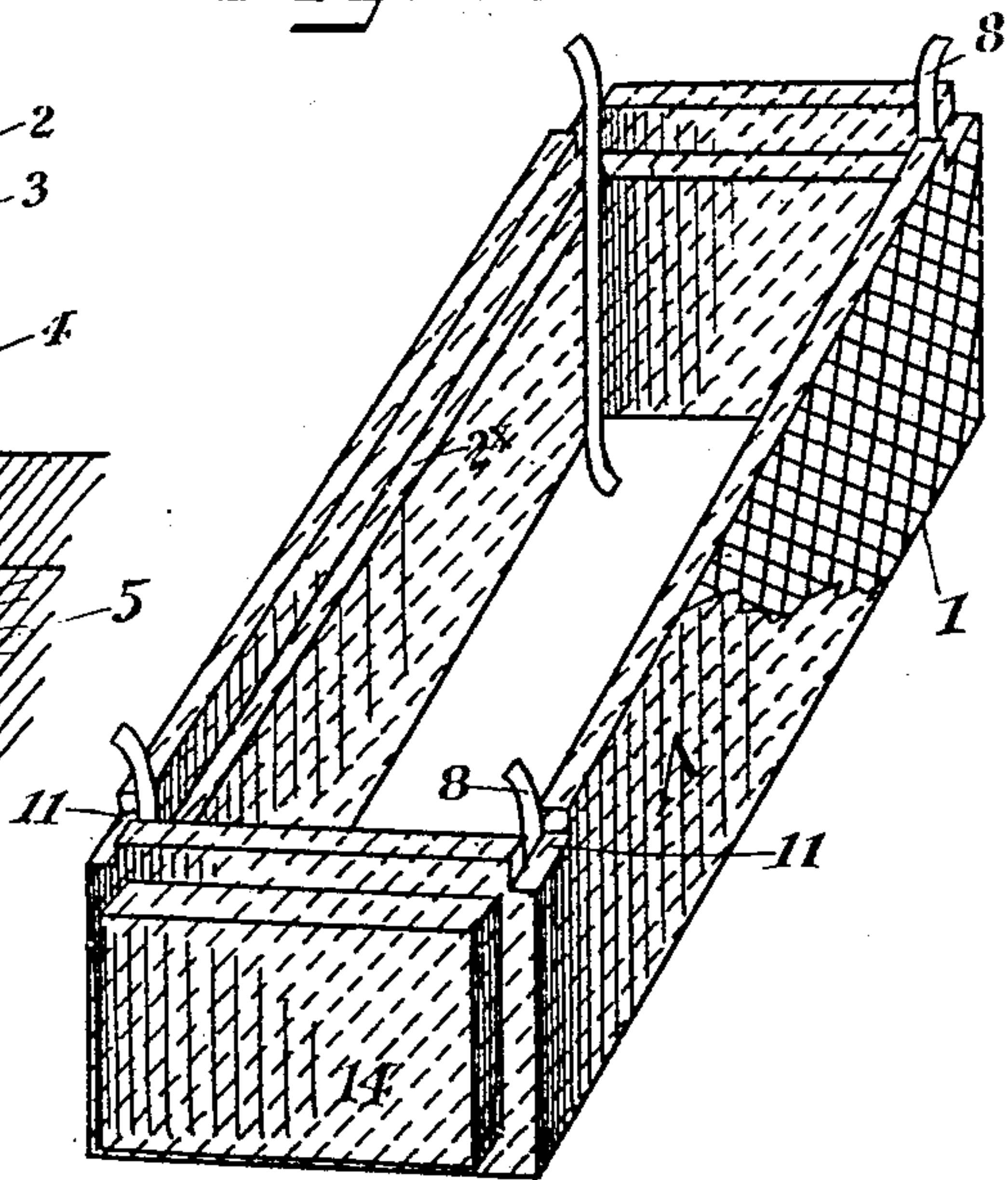
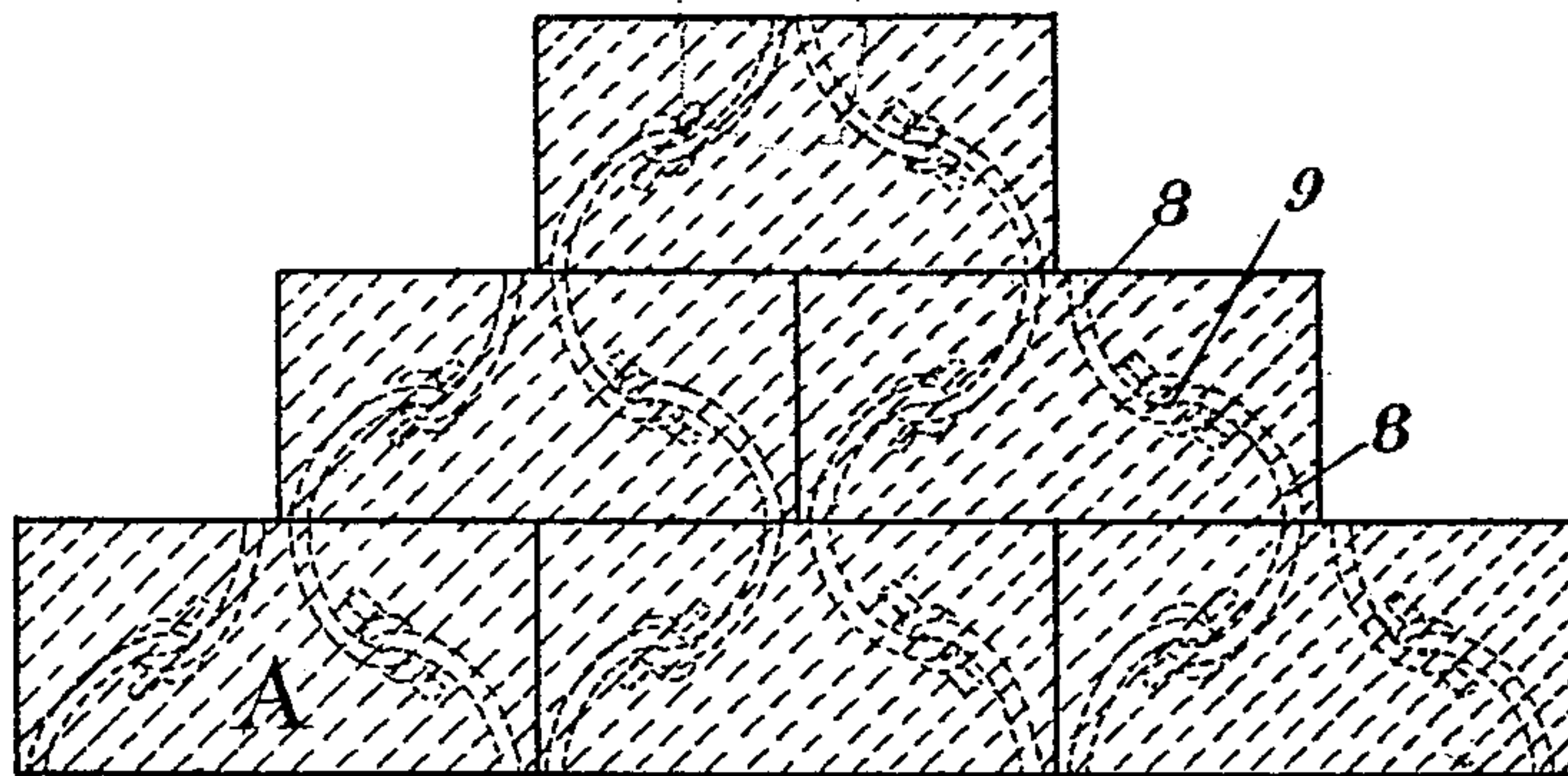


Fig. 3.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 4.

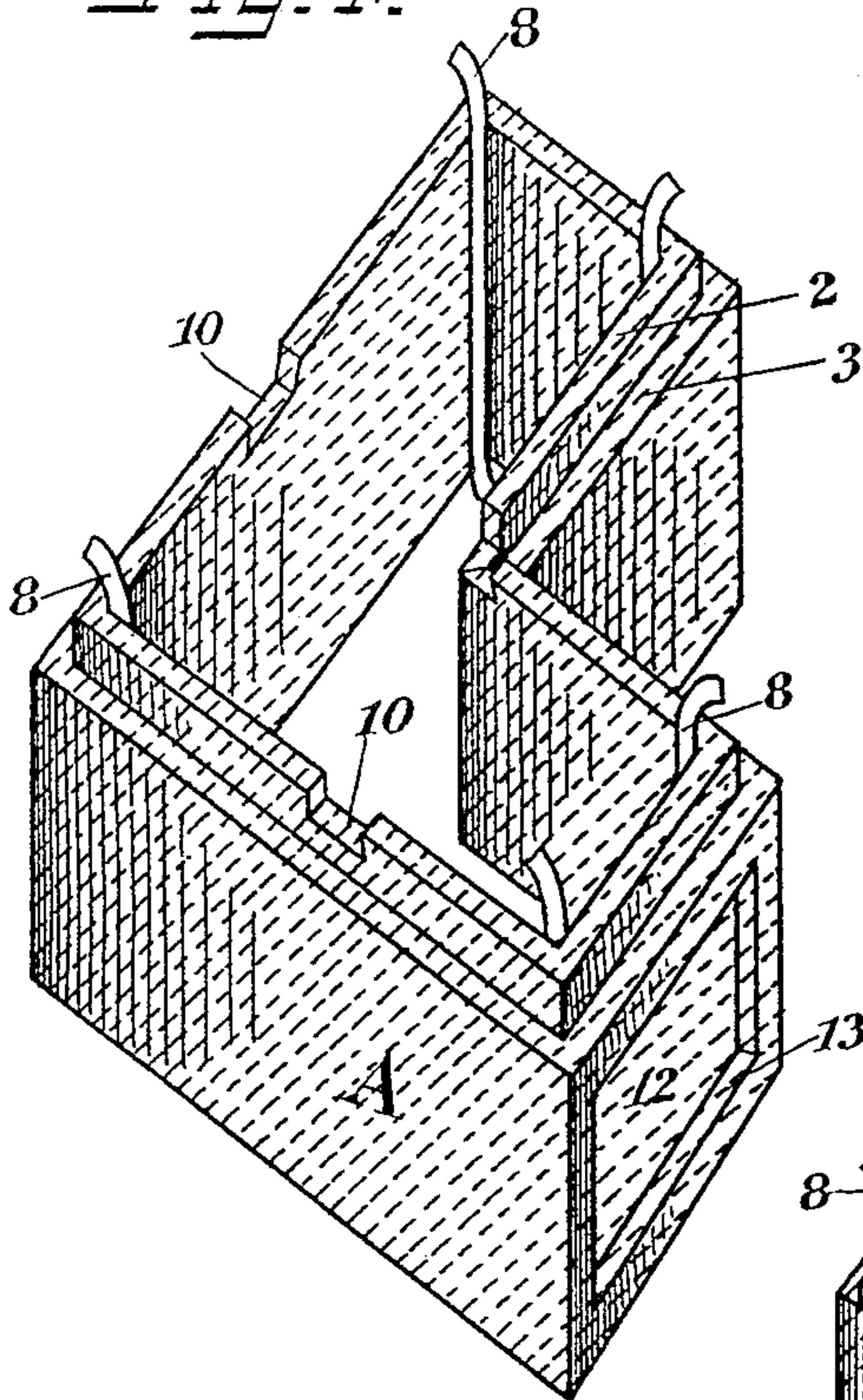


Fig. 5.

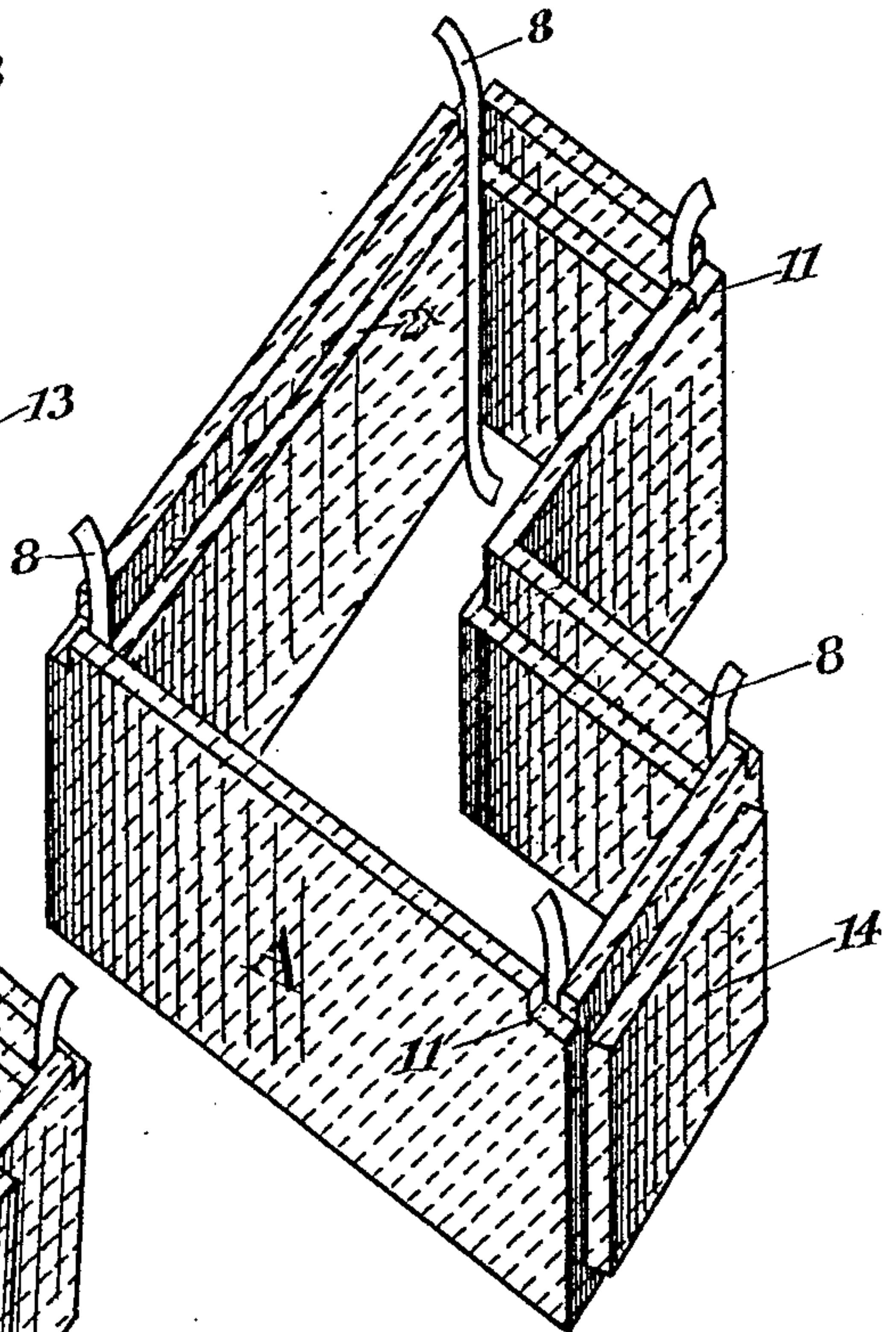


Fig. 6.

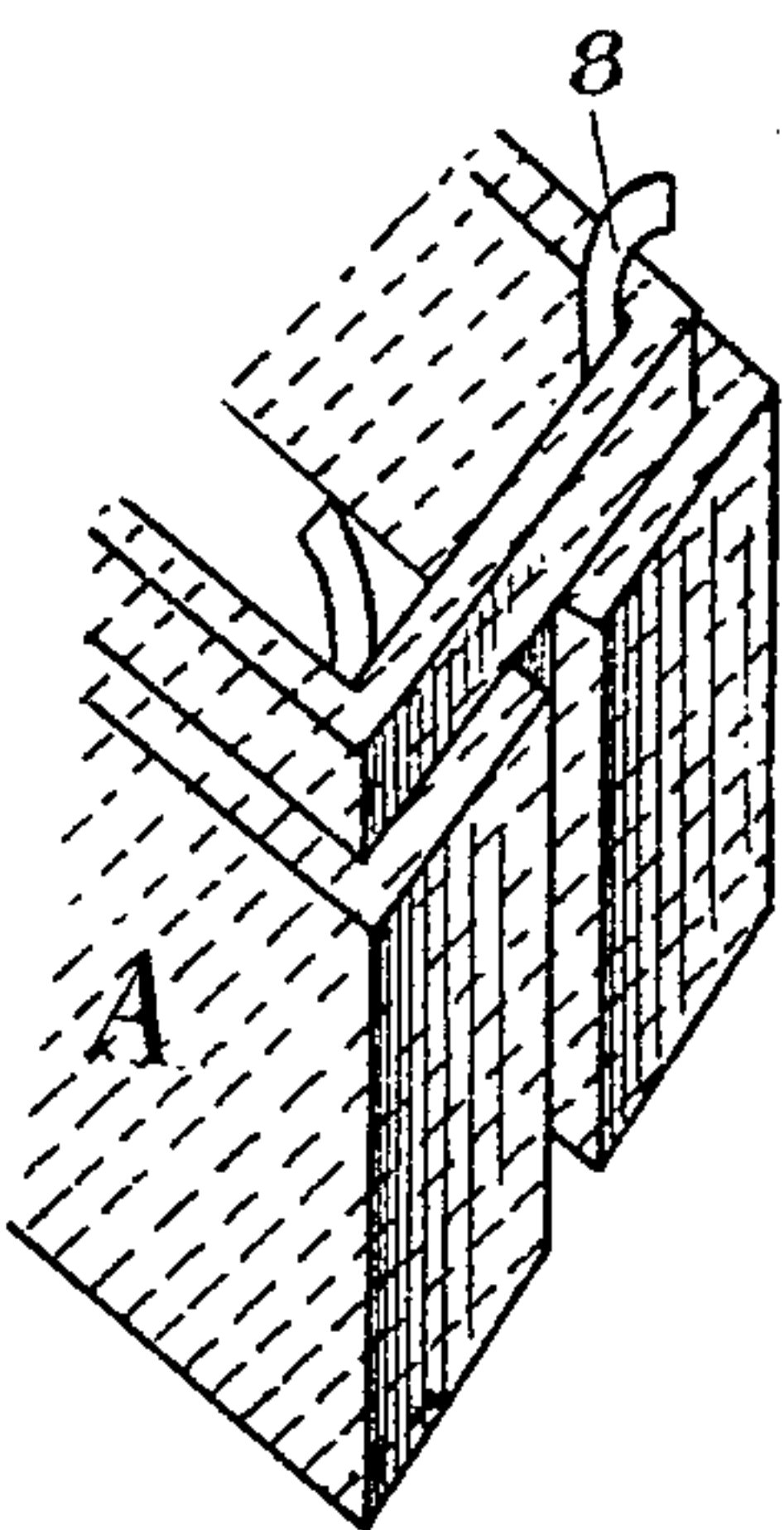
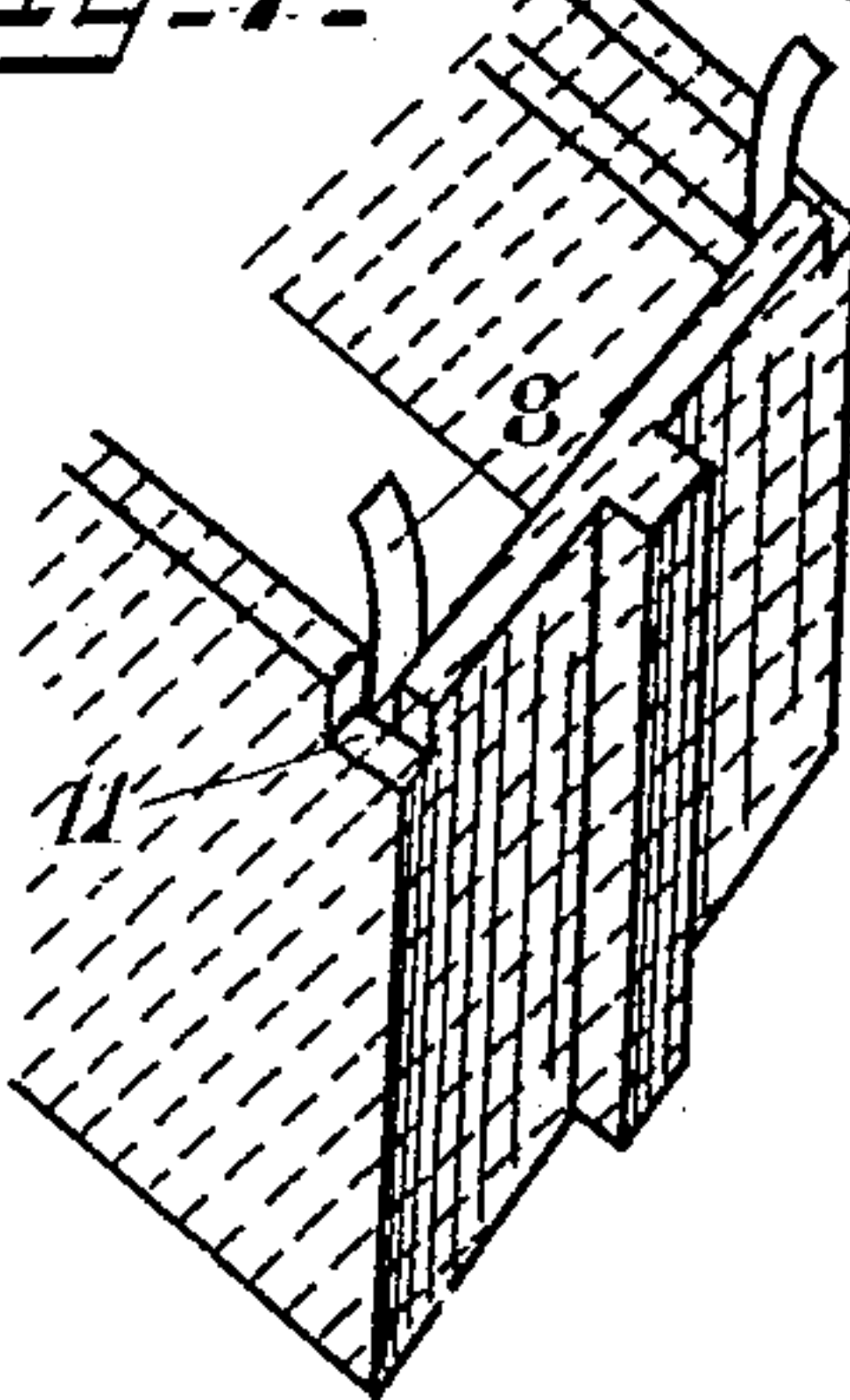


Fig. 7.



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REINFORCED CONCRETE BUILDING-BLOCK.

No. 859,947.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed October 6, 1906. Serial No. 337,687.

To all whom it may concern:

Be it known that I, SOLOMON M. KEMP, a citizen of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in Reinforced Concrete Building-Blocks, of which the following is a specification.

My invention relates to an improvement in reinforced concrete building blocks, the object being to provide a cheap, durable and effective building block, which can be quickly installed in the erection of buildings in the construction of which it is used, and by the use of a block as invented by me a building of any character, if constructed of blocks of this description, is rendered as durable, safe and sound as any other in which this class of block is used in the construction thereof.

My invention consists in certain other new and novel features of construction and combination of parts, which will be hereinafter described and pointed out in the claims.

Referring to the accompanying drawings in which like letters and figures of reference indicate corresponding parts in each of the several views. Figure 1 is a perspective view of a block, showing an end view and the installation of a joist therein. Fig. 2 is a perspective view of the same block showing a view of the opposite end and lower edges of the side walls. Fig. 3 is a perspective view of a section of wall, showing in outline the method of tying the blocks together. Figs. 4 and 5 are perspective views of blocks used for corner purposes. Figs. 6 and 7 are modified end views.

A is a block made of concrete and re-inforced by woven wire being molded within the walls thereof as indicated by 1, on Fig. 2. In Fig. 1 the block A is provided with an extension 2, and shoulder 3, around the extension 2 is secured a metal strip 4, terminating by the formation of a ring 5, for the purpose of securing the joist 6, within the opening 7 of the block, which is accomplished by any ordinary method, such as by inserting a headed nail or spike (not shown) through the ring 5 and driving it into the joist 6, securing the head of the nail or spike (not shown) flush against the ring 5. In each corner of the block A is secured a metal rod 8; these metal rods are for re-inforcement purposes and are knotted or otherwise secured together in the building of a wall as shown and indicated in Fig. 3, at 9. In Fig. 1 the extension 2, is cut away at 10, and the block on the bottom in the corners thereof as shown in Fig. 2, is cut away at 11, for the purpose to be hereinafter explained. Within the inner bottom portion extending along the four walls a sufficient distance from the lower edges of said walls is formed a shoulder 2^x, adapted to rest on the extension 2, of a similar block when secured together.

In Fig. 2 the block is shown reversed, namely, a lower edge view of the walls and the opposite end of that as shown in Fig. 1, the extension 2 is cut away at the center of the block at 10 a sufficient width and depth to permit the cut away portions 11 of two blocks to fit therein, so that the top block will be flush with the under block. One end of the block is hollowed out at 12, to a desired depth and leaving a suitable thickness of the walls 13, while the opposite end of the block is molded with an extension or tenon 14, which extension or tenon is adapted to be fitted to the opposite end 12 of a similar block, forming a mortise joint; 15 is a hole extending through the top end portion of the block opening into the opening 12, the object of which being for the purpose of pouring grout there-through, whereby the jointure of the blocks is made secure.

The same description as heretofore given is applicable to the corner blocks as shown in Figs. 4 and 5. While I have shown the end portions of this block in the form as just described it is very apparent that the same result might be had by the use of a block, the ends of which are constructed as shown in Figs. 6 and 7, hence I do not desire to limit myself to the exact construction as herein set forth, as I am aware that slight changes might be resorted to in the form and arrangement of the several parts without departing from the spirit and scope of my invention, but;

Having described my invention what I claim as new and desire to secure by Letters Patent is:—

1. The combination of a reinforced concrete building block substantially as hereinbefore described, provided with a hollow end portion and an opening in the side wall thereof, of an extension and shoulder on the top part of the said block, of a metal band secured around the said extension, of a cut away portion in the extension, of a metal rod reinforcement secured in each corner of the block, of an extension on the opposite end of said block and adapted to fit into the opposite hollow end portion of a similar block whereby they may be secured together, for the purpose as herein set forth.

2. The combination of a reinforced concrete building block substantially as hereinbefore described, provided with an opening in the side wall thereof, of an extension and a shoulder on the top part of the said block, of a metal band secured around the said extension, of a joist fitted within the said opening, and means whereby the metal band is secured to the joist, for the purpose as herein set forth.

3. The combination of a re-inforced concrete building block substantially as hereinbefore described, provided with a woven wire re-inforcement molded within the walls thereof, of an opening within one end of the block, an extension on the opposite end of the said block and adapted to fit into a cooperating opening in the opposite end of a similar block, of a metal rod re-inforcement secured within each corner of the block, for the purpose as herein set forth.

4. The combination of a reinforced concrete building

block, substantially as hereinbefore described, provided with an opening in the side wall thereof, into which is fitted a joist, of an extension provided with a cut away portion and a shoulder on the top part of the said block.
5 of a metal band secured around the said extension, of means whereby the metal band is secured to the joist, of a metal rod reinforcement secured within each corner of the block, whereby the blocks one upon the other are secured together, of a cut away portion within the corners
10 of the block on the bottom portion thereof and adapted

to line with the cut away portion of the extension on the top part of a similar block, when one block is placed on top of the other in the manner hereinbefore described, for the purpose as herein set forth.

In testimony whereof I affix my signature in presence 15 of two witnesses.

SOLOMON M. KEMP.

Witnesses:

E. WALTON BREWINGTON,
MARY M. MAGRAW.