

GEORGE H. MOORE.

Improvement in Inlaying Plastic Pavements.

No. 121,651.

Patented Dec. 5, 1871.

Fig 1.

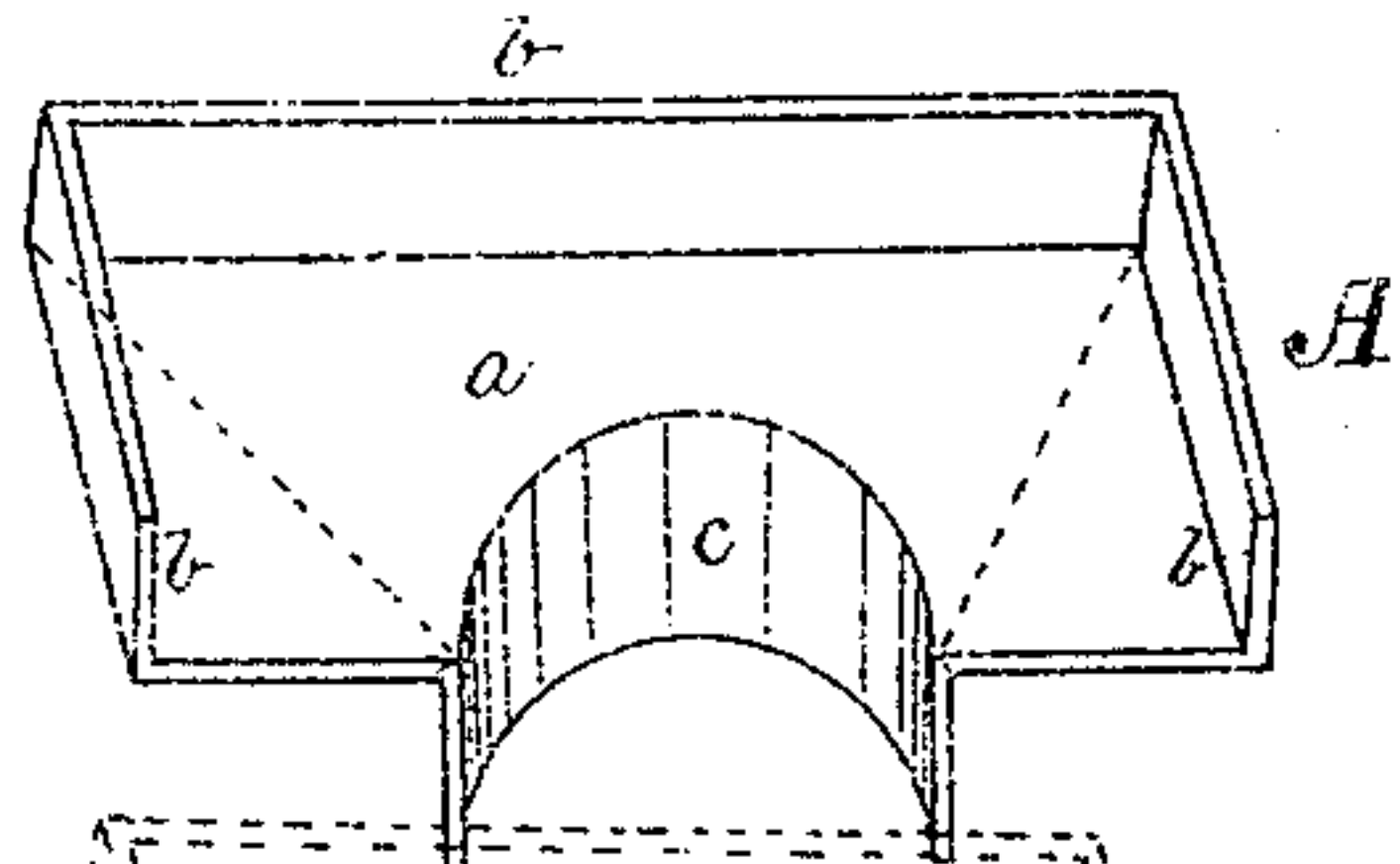


Fig 2.

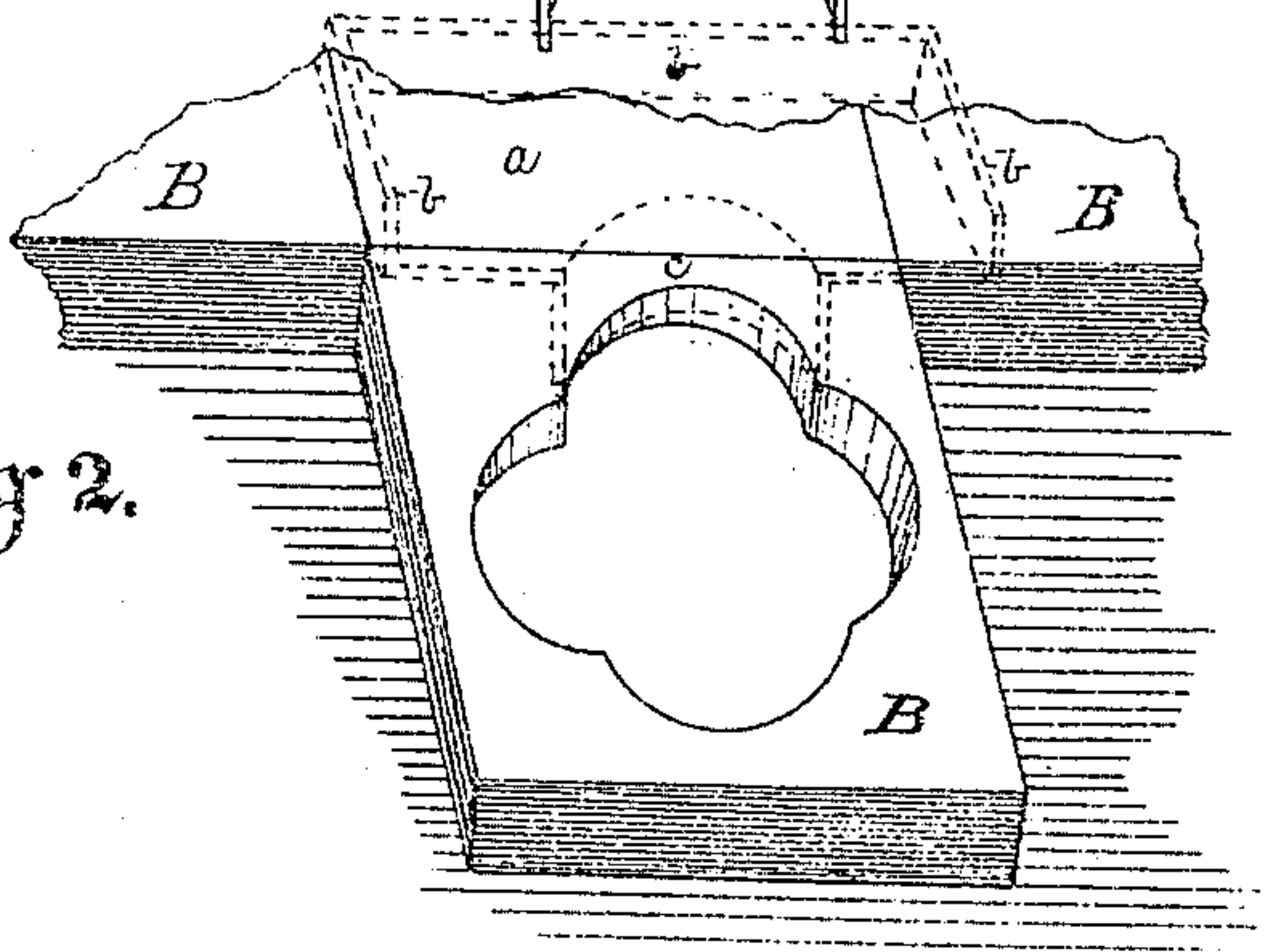


Fig 3.

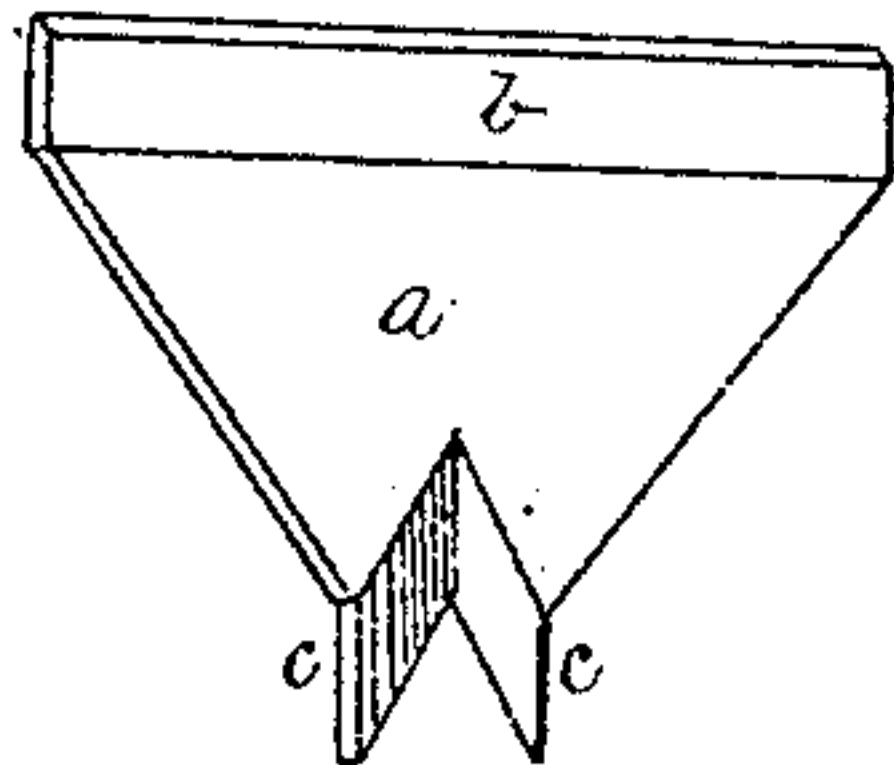


Fig 4.

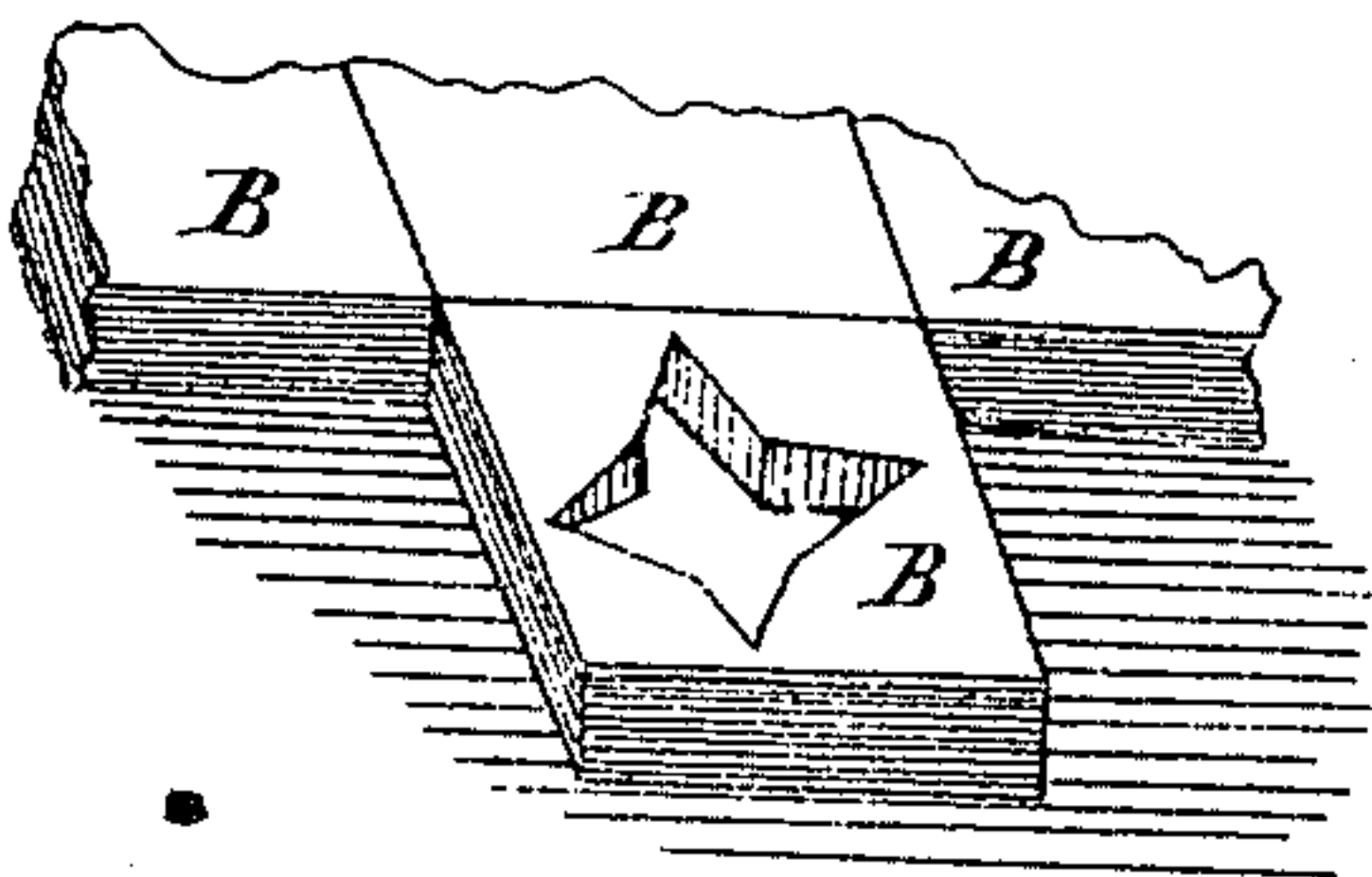
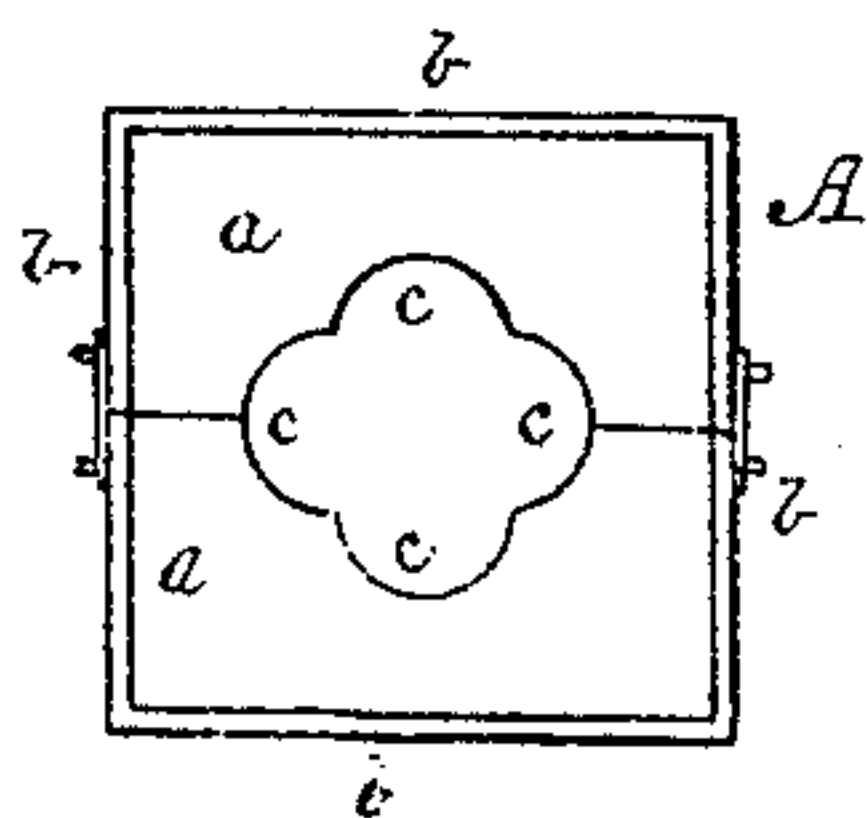


Fig 5.



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By James L. Norris
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Fig 6.

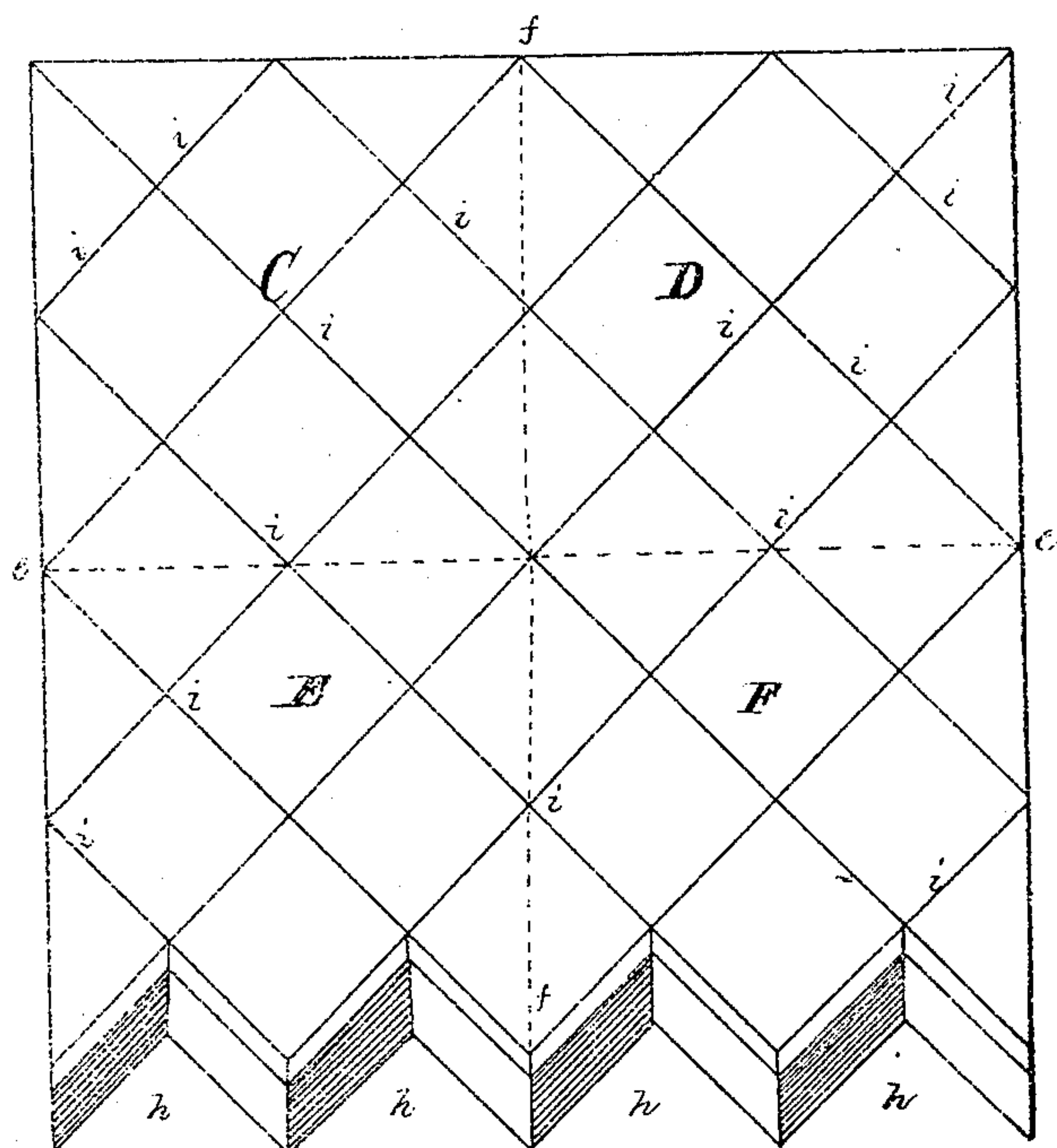
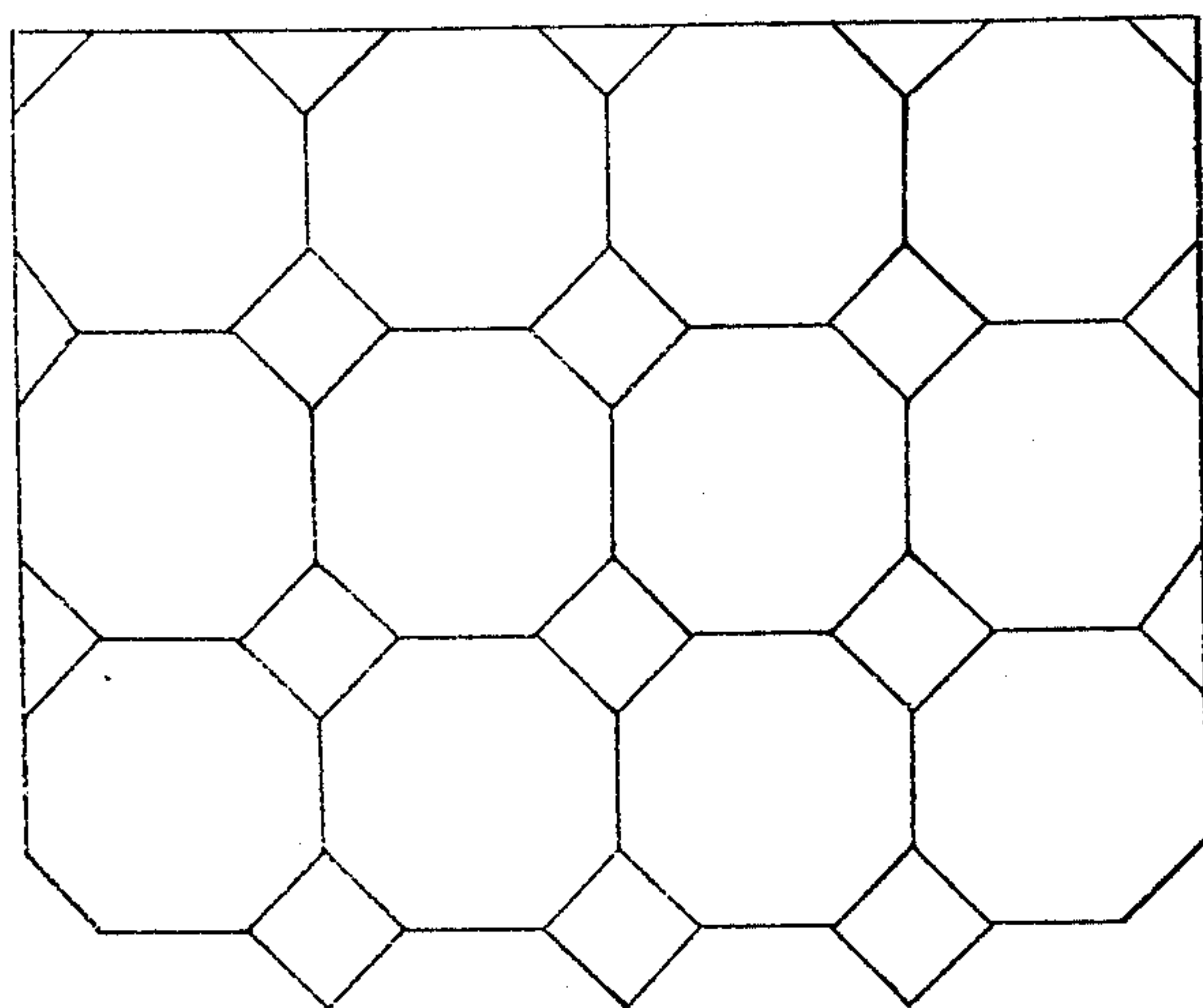


Fig 7.



Witnesses:

Parker & Sweet Jr.
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 Attorney

UNITED STATES PATENT OFFICE.

GEORGE H. MOORE, OF NORWICH, CONNECTICUT.

IMPROVEMENT IN INLAYING PLASTIC PAVEMENTS.

Specification forming part of Letters Patent No. 121,651, dated December 5, 1871.

To all whom it may concern:

Be it known that I, GEORGE H. MOORE, of Norwich, in the county of New London and State of Connecticut, have invented a certain new and useful Improved Method of Inlaying Plastic Material with colored plastic material for forming blocks for pavements, tiles, and other articles; and I do hereby declare that the following is a full, clear, and exact description of the same, sufficient to enable others versed in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

In the drawing, Figure 1 is a perspective view of an improved metallic inlaying-mold which is employed to form recesses of different contour in plastic blocks. Fig. 2 is a plan view of a portion of a pavement, showing a single block having the recess formed preparatory to inlaying, the inlaying-mold being in place, shown in dotted lines. Fig. 3 illustrates the inlaying-mold, having angular lips or formers, for forming the sides of the recess in blocks so as to produce angular figures when the inlaying medium is applied. Fig. 4 is a plan view of a portion of a pavement, showing one of the blocks having a star recess formed therein preparatory to receiving the inlaying material. Fig. 5 is a perspective view, showing the inlaying-mold made up in one body. Fig. 6 is a top or plan view of the mode of jointing inlaid blocks composing a pavement; and Fig. 7 is also a plan view of a design for an inlaid pavement similar in construction to that shown in Fig. 6.

This invention consists in the construction and employment of inlaying-molds which are provided at one end, on its top surface, with a handle or shield, and on the other end and opposite side of said plate with a depending cutter or cutters, which are shaped into varied forms, so that when forced down into a plastic block and the inclosed plastic mass removed the recess thus formed in said block will in outline represent the figure desired to be produced. The invention further consists in inlaying a figure, body, or block, or a series of blocks composing a pavement, formed of concrete or a similar substance, while the same are in a plastic state or condition, and in position with a colored plastic concrete or material of the same or of different ingredients to that to which it is applied, by means of inlay-

ing molds, in such a manner that when the inlaying medium is applied to the said concrete figure, body, block, or blocks, the two will cohere or unite and form a solid homogeneous mass. The invention finally consists in inlaying a plastic concrete block or article, after it has been formed, in its destined position, with a colored plastic concrete by means of inlaying molds, so that the inlaid medium will represent figures of different shape or contour, and which inlaid figures may be raised or depressed, or otherwise ornamented, or itself be again inlaid.

In the drawing, A designates inlaying-molds. These molds are formed of any suitable sheet or cast metal, and, if sheet metal be used, are preferably struck up in one piece. The body *a* is provided on its top surface with a vertical handle, *b*, by which the device is lifted, and which also acts as a shield, for a purpose hereinafter mentioned. From the under side of these metal inlaying-molds depend one or more molds, *c*, which are either of an angular, curved, square, or straight formation, so that when the body A of the inlaying-mold is laid upon one or more of the plastic blocks when in position, and the said mold or molds *c* forced down into the said plastic block or blocks, and the mass thus surrounded removed, the cavity or space thus formed will represent in outline the design or shape of the figure intended to be produced. The molds *c* are made of any external form or shape, and may be made in sections with the body A and handle or shield *b*, as shown in Figs. 1 and 3, and the several parts required to produce the full design or figure locked or secured in position; or the mold may be made in one piece with the body A and handle or shield *b*, as shown in Fig. 5, which is preferable. B B represent blocks of concrete or similar substance laid in the usual or ordinary manner, and in position either with or without a separable joint between them.

To inlay one or all of these concrete blocks while the same are in a plastic state or condition and in position with a coloring plastic concrete with the same or with different ingredients from that composing the plastic block I place the inlaying-mold upon the plastic blocks already in position and force the mold or molds *c*, having the desired form or figure, down into the plastic block or blocks—say, about one inch, more or less—and then remove the mass thus surrounded,

as clearly shown in Figs. 2 and 4, which removed mass is used again in forming part of another block. The space or cavity produced by such removal while the molds are still in position I fill with a plastic mass of any desired color and composition, the molds being carefully removed by taking hold of the handle *b*, the slight space or opening left being closed by gentle pressure upon the surface of the plastic block and the plastic inlaid material. While these blocks, tiles, or articles are arranged in their destined position, and are yet in their soft or plastic state, I inlay or insert into the same a previously-prepared figure or ornament of any shape, design, color or colors, or composition, so that when the said plastic block or article has become hard the figure or ornament will be snugly and firmly held in position and the block or article thus inlaid will present an appearance as if it was an integral part.

In Figs. 6 and 7 I show the plastic blocks laid in position so as to exhibit the manner of jointing inlaid pavements, &c. I first mold in the ordinary manner, in position, the square block *C*; then, if I mold the plastic block *D* or *E F*, the dotted lines *e f* will show the joints of separation. When these blocks are in this position and in a soft or plastic state I inlay them with colored plastic material at the separating-joints *e f*. In this case the inlaying or design formed will be crossed or intersected by the said separating-joint. To dispense with this joint I cut out or mold the plastic block, when in its molded position, with a recess, *g g*, of an outline corresponding to the outline of the design or figure to be inlaid. The said blocks are marked or laid off in diamonds or squares, as shown by lines *i i*,

and either or every alternate one, while in its plastic state and molded position, is inlaid with the plastic mass of the color and composition desired.

I intend, as stated above, without departure from the spirit of my invention, to inlay or insert a previously-prepared hard figure or ornament of any desired color or colors and composition in the plastic block, tile, figure, or article while the latter is in its plastic state and molded condition.

The joints between any or all of the blocks, tiles, or figures, or between the inlaid material and the block or article into which it is inserted or inlaid, may be made so as to be separable by the employment of powdered steatite or its equivalent.

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

1. Inlaying a plastic block of concrete in the position in which it is to remain with a colored plastic material.

2. Inlaying a plastic concrete block while in position with a colored plastic material, in the manner and by the means substantially as described.

3. Inlaying or inserting a previously-prepared figure or ornament into a plastic block of concrete molded in the position in which it is to remain.

To the above specification I have signed my name this 13th day of November, A. D. 1871.

GEORGE H. MOORE.

Witnesses:

JAMES L. NORRIS,
WM. J. PEYTON.

(110)