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No. 771,520.

T. W. WORRALL.

PATENTED OCT. 4, 1904.

BUILDING BRICK OR BLOCK AND FACING THEREFOR.

APPLICATION FILED NOV. 11, 1903.

NO MODEL.

Fig. 1.

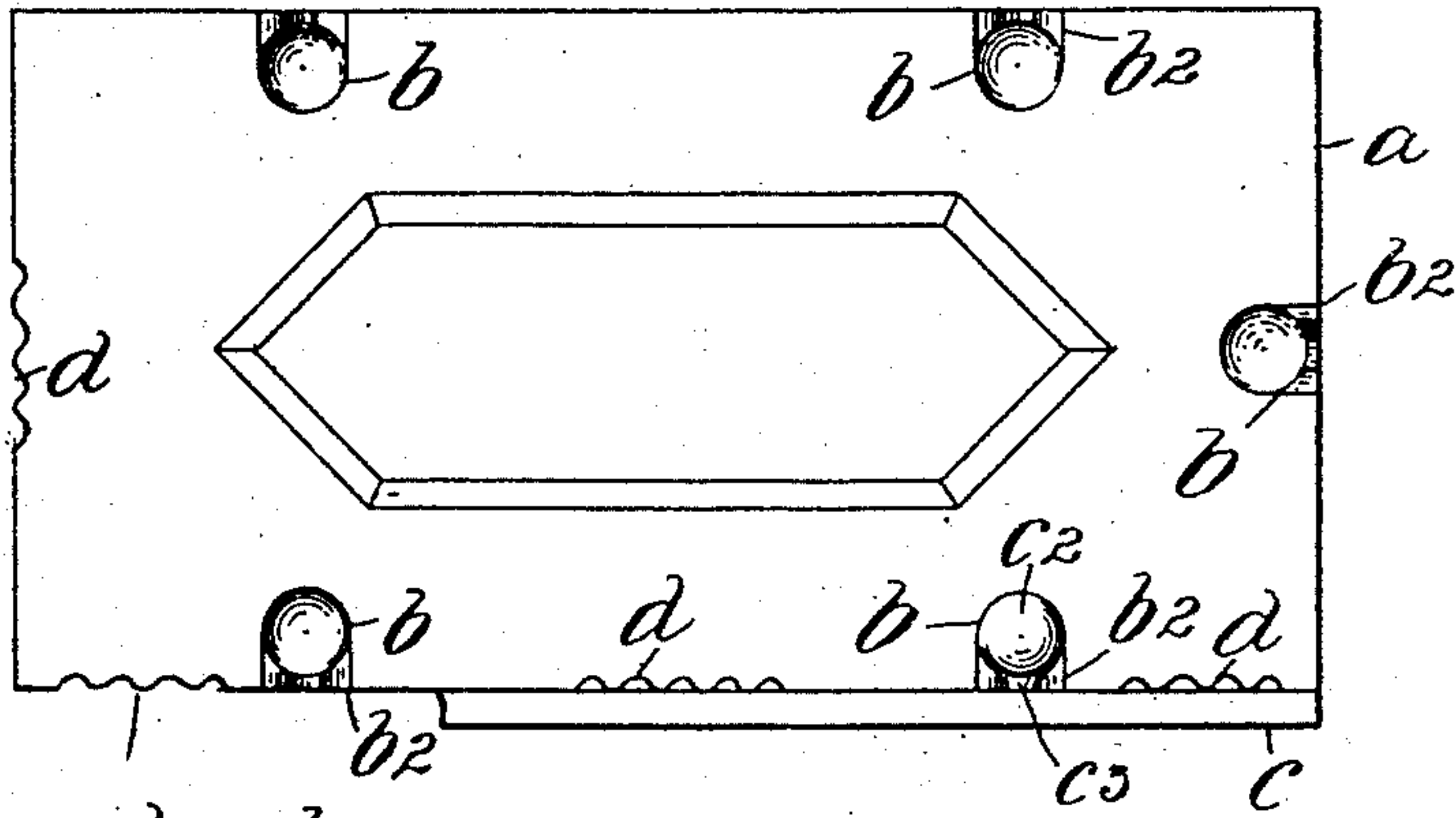


Fig. 2.

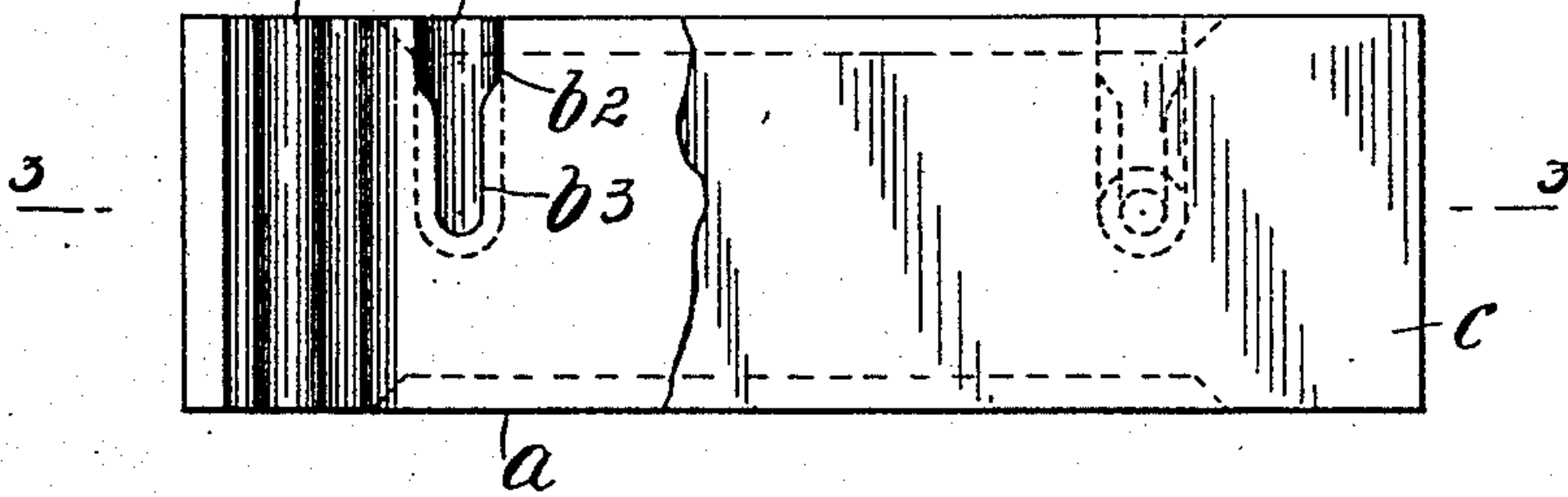


Fig. 3.

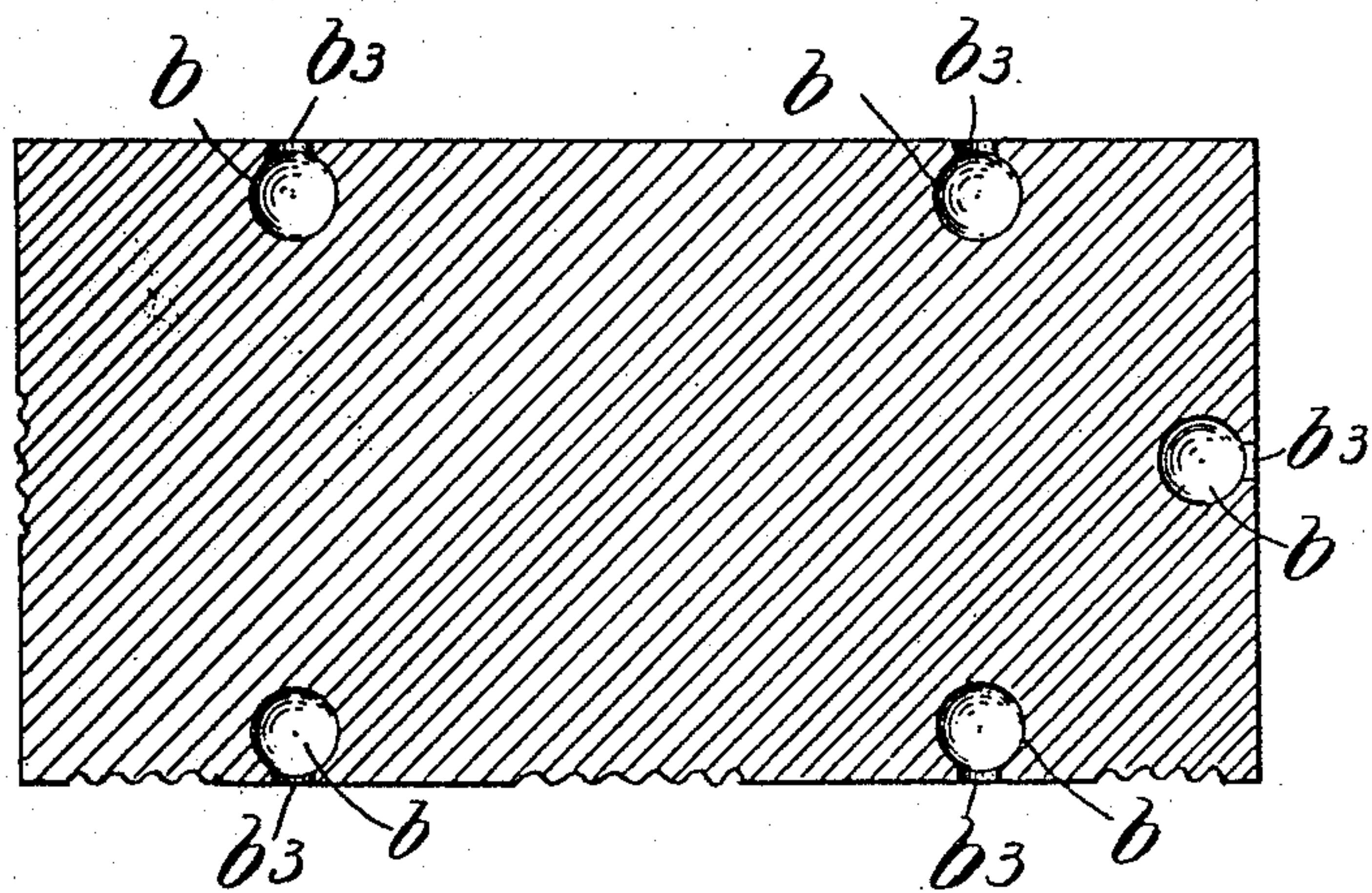
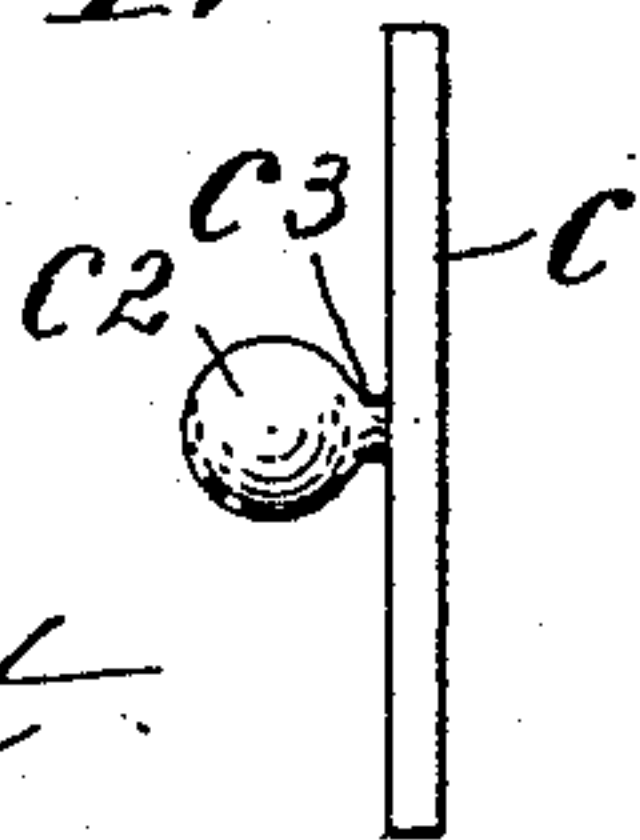


Fig. 1.



WITNESSES:

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UNITED STATES PATENT OFFICE.

THOMAS W. WORRALL, OF NEW YORK, N. Y.

BUILDING BRICK OR BLOCK AND FACING THEREFOR.

SPECIFICATION forming part of Letters Patent No. 771,520, dated October 4, 1904.

Application filed November 11, 1903. Serial No. 180,646. (No model.)

To all whom it may concern:

Be it known that I, THOMAS W. WORRALL, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Building Bricks or Blocks and Facings Therefor, of which the following is a specification, such as will enable those skilled in the art to which it ap-

10 pertains to make and use the same.

This invention relates to building bricks or blocks and facings therefor, and particularly to building bricks or blocks made of clay, concrete, or any other suitable material capable of being molded into the desired form; and the invention consists in bricks or blocks of this class of novel form whereby such bricks or blocks may be locked together in layers and whereby a facing of any suitable material may be secured thereto, a further object being to provide a facing for bricks or blocks of the class specified composed of tiling or similar material molded into the required form and adapted to be locked to said bricks or blocks after they have been placed in the wall.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which—

Figure 1 is a plan view of a brick or block made according to my invention and showing a part of a facing connected therewith; Fig. 2, a front view thereof; Fig. 3, a section on the line 3-3 of Fig. 2 with the facing removed, and Fig. 4 an end view of the facing shown in Figs. 1 and 2.

40 In the practice of my invention I provide a brick or block *a*, composed of any suitable material capable of being molded into the required form, and this brick or block is provided in the top, side, and end portions thereof with vertically-arranged recesses *b*, two of which are shown in each side and one in one end thereof. The recesses *b* extend downwardly approximately to the horizontal central plane of the brick or block, and these

tion, and formed in the sides and ends of the bricks or blocks are vertical slots or openings *b*², which communicate with the recesses *b* and which are wider at the top than at the bottom, as shown at *b*³, the top portions of said slots or openings being equal in width to the diameter of the recesses *b*, while the bottom portions thereof are less in width or transverse section than the diameter of said recesses.

By means of this construction contiguous bricks placed in a wall may be locked together by means of cement or other keys, the recesses and slots or openings being so formed in the contiguous bricks that the said slots or openings will register. The chief object, however, in making the said bricks or blocks in the manner described is to provide means for securing a facing thereto, and in Figs. 1 and 2 of the drawings I have shown at *c* a facing composed of terra-cotta or any other suitable material capable of being molded into the required form, and this facing is provided with one or more keys *c*², according to the length of the facing and the brick or block. The key *c*² consists of a spherical knob connected with the facing *c* by a neck *c*³, and in practice the said key or keys are placed at the longitudinal center of the facing in the form of construction shown, and all that is necessary to connect the facing with a brick or block is to hold the facing so that the key or keys may be forced backwardly into the opening or openings *b*² in the side or end of the brick or block, after which the facing may be lowered and the key or keys will drop down into the recess or recesses *b* and the facing will be securely locked to the brick or block.

If desired, cement may be used between the facing and the brick or block and also to fill the recess or recesses *b*² and the slots or openings *b*² and *b*³, and the facing may thus be securely connected with the brick or block.

In the form of construction shown the brick or block is provided in one side or one end with vertically-arranged grooves or recesses *d*, any desired number of which may be provided and in which cement may be placed, this cement being placed between the various bricks or blocks in a wall and also between the facing and the various bricks or blocks,

1 these grooves or recesses may be formed
all the sides and ends of the bricks or blocks,
desired.

It will be apparent that when a wall com-
posed of bricks or blocks similar to that herein
described has been finished the facing or fac-
ings *c* may be placed in position in the same
manner as herein shown and described, and
these facings may correspond in dimensions
10 with one of said bricks or blocks, or a single
casing may cover several bricks or blocks.

The facing or facings may also be placed in
position when the wall is being constructed,
if desired, and my invention is in no way lim-
15 ited to the size or dimensions of the bricks or
blocks nor the size or dimensions of the facing
or facings, and the facing or facings may be
given any desired shape or configuration or
ornamentation on their outer side.

20 The brick or block shown in the drawings is
provided with the recesses *b* and the corre-
sponding slots or openings *b*² and *b*³ in two
sides and one end thereof; but both ends may
be similarly provided, and when thus con-
25 structed all the contiguous bricks or blocks
in a single layer may be locked together, and
this arrangement also facilitates the placing of
the bricks or blocks at the corners of a build-
ing and the breaking of joints in the separate
30 layers; but it will be apparent that for the pur-
pose of securing the facing or facings to bricks
or blocks of this class only one side thereof
may be provided with the recesses *b* and slots
or openings *b*² and *b*³ in bricks or blocks not
35 used at the corners of a building or the cor-
ners of a wall, and corner bricks or blocks may
be made so as to fill the requirements in such
cases; but where all the bricks or blocks are
provided in each side and end with the re-
40 cesses *b* and side slots or openings *b*² and *b*³,
communicating therewith, the bricks or blocks
in separate layers may be locked together,
and facing or facings *c* may be applied in the
manner described.

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

1. A building brick or block the top surface
of which is provided adjacent to a side thereof
50 with a vertically-arranged recess which ex-
tends downwardly into the brick or block a
predetermined distance, the side of the brick
or block being also provided with a vertically-
arranged slot or opening communicating with
55 said recess and wider at the top than at the
bottom, and a facing provided with a key com-
prising a knob or head connected with said

facing by a neck, said knob or head being
adapted to be inserted into said recess through
the top portion of said slot or opening and to 60
be dropped into the bottom portion of said
recess, substantially as shown and described.

2. A building brick or block, the top surface
of which is provided near the sides and ends
thereof with vertically-arranged recesses and 65
vertically-arranged slots or openings formed
in the sides and ends and communicating with
said recesses, said slots or openings being
wider at the top than at the bottom and a fac-
ing provided with a key or keys comprising 70
knobs or heads connected with said facings
by necks, said knobs or heads being adapted
to be forced backwardly into said recesses
through the enlarged upper portions of said
slots or openings, substantially as shown and 75
described.

3. A building brick or block, the top surface
of which is provided near a side thereof with
a vertically-arranged recess, said side being
provided with a vertically-arranged slot or 80
opening communicating therewith, and a fac-
ing provided with a key adapted to be inserted
into said recess through the top portion of
said slot or opening and to drop into the bot-
tom portion of said recess, substantially as 85
shown and described.

4. A building brick or block and a facing
therefor, one of said parts being provided in
one of the faces thereof and adjacent to another
face thereof with a recess parallel with the 90
last-named face and extending partially
through said part, said last-named face being
also provided with a slot which communicates
with said recess throughout its length and is
of less dimensions in transverse section than 95
said recess except at the end thereof adjacent
to the first-named face of said part where it
is of the same dimension in transverse section
as said recess; and the other part being pro-
vided with a key comprising a knob or head 100
connected therewith by a neck, said knob or
head being adapted to be passed backwardly
into said recess through the enlarged end por-
tion of said slot, substantially as shown and
described. 105

In testimony that I claim the foregoing as
my invention I have signed my name, in pres-
ence of the subscribing witnesses, this 9th day
of November, 1903.

THOMAS W. WORRALL.

Witnesses:

F. A. STEWART,
C. E. MULREANY.