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C. KELLY ET AL

BUILDING BLOCK

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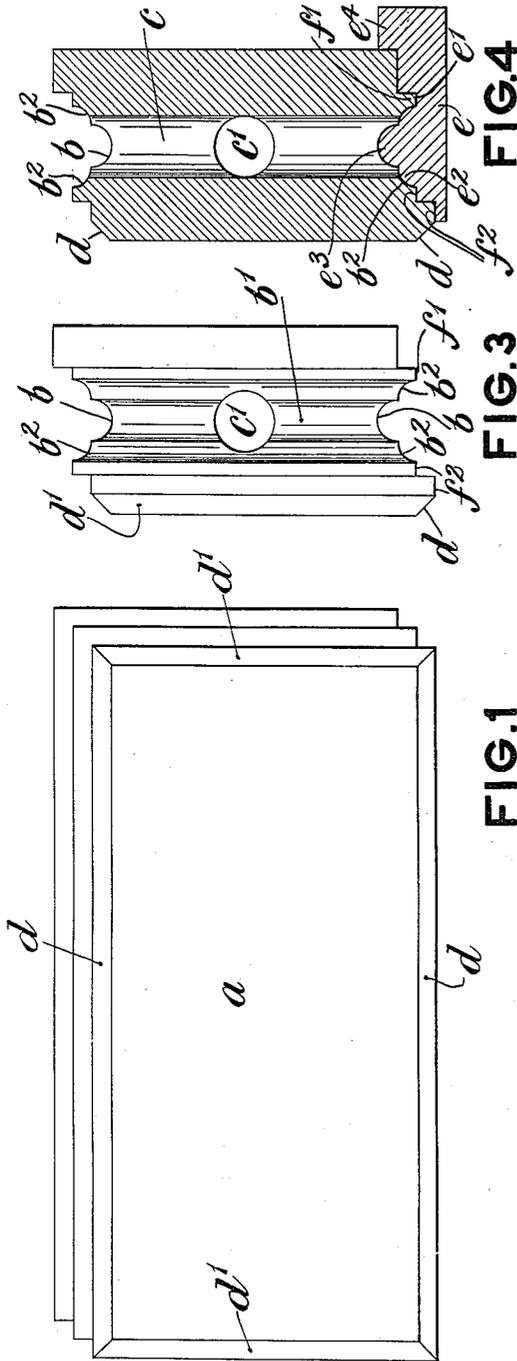


FIG. 4

FIG. 3

FIG. 1

FIG. 2

Inventors:
 Caroline Kelly,
 Thomas Beavers Belvoir.
 Attorney: *A. M. Hudson*

UNITED STATES PATENT OFFICE.

CAROLINE KELLY AND THOMAS BEEVERS BELVOIR, OF WARDEN, ISLE OF SHEPPEY,
ENGLAND.

BUILDING BLOCK.

Application filed September 20, 1921. Serial No. 502,016.

To all whom it may concern:

Be it known that we, CAROLINE KELLY and THOMAS BEEVERS BELVOIR, both residents of Warden, Isle of Sheppey, in the county of Kent, England, subjects of the King of Great Britain, have invented certain new and useful Improvements Relating to Building Blocks, of which the following is a specification.

10 This invention relates to blocks for building purposes of concrete, tile, clay or other suitable material.

Broadly stated, the invention consists in forming the blocks with one or more grooves extending longitudinally thereof on their upper and lower surfaces, these grooves connecting with similar vertical grooves in each end surface, there being also provided vertical and horizontal passages extending through the block from the horizontal and vertical grooves respectively. The invention further comprises a special form of foundation block for use with those above mentioned.

25 An embodiment of such blocks, given as an example, is illustrated in the accompanying drawing in which, Fig. 1 is a face view, Fig. 2 a top plan view. Fig. 3 an end view and Fig. 4 a central cross section including also a foundation block.

30 In the embodiment shown in the drawings, the block a is formed so that it has one or more grooves b extending lengthwise thereof on the upper and under surface and connecting with corresponding vertical grooves b^1 in each end surface. These grooves may be ridged or recessed as at b^2 so that they represent in cross section star-like or scalloped forms.

40 From the groove in the upper face of the block to the corresponding groove in the lower face of the block passage ways may be formed at intervals extending through the block, one of these passage ways being shown at c and a similar passage c^1 may be made laterally or horizontally, thus connecting the vertical grooves at either end and forming a continuous network of passages which is very effective for speedy dry-
50 ing off during process of manufacture.

Where a number of these passages are provided they may serve, as to some of them,

for the running in of cement grouting, and as to others of them, for the ventilation of the block for the purpose of permitting the blocks to dry out more efficiently when in position.

Such blocks, with the grooves aforesaid may also be so made that their horizontal and/or vertical meeting surfaces are stepped in one or more steps, this being shown in the drawing as applied to the horizontal meeting faces, which are higher at the rear than at the front and at the latter edges may be chamfered as at d d^1 to provide an artistic appearance.

For the foundation course there are provided special blocks e of greater width than the wall blocks having in their upper faces a longitudinal groove e^1 and shaped as at e^2 to receive the correspondingly shaped lower edges f^1 f^2 of the first course of the blocks previously described. The foundation block is also shown as provided with a horizontal rib e^3 adapted to enter the groove b on the lower face of the block mounted thereon. If desired the front of the foundation blocks e may be formed similarly to the back, that is to say, said blocks may have an upstanding flange e^4 in which case both front and back of the blocks a would be similarly formed and the chamfer d dispensed with.

What we claim as our invention and desire to secure by Letters Patent of the United States is:—

1. A block for building purposes comprising at least three elements stepped relatively to one another both vertically and horizontally, so that each block, although formed in one piece, is in the form of superposed parts and having vertical and horizontal grooves in its edges.

2. A block for building purposes comprising at least three elements stepped relatively to one another both vertically and horizontally, so that each block, although formed in one piece, is in the form of superposed parts and having vertical and horizontal grooves in its edges said grooves being curved in cross section.

3. A block for building purposes comprising at least three elements stepped relatively to one another both vertically and

horizontally, so that each block, although formed in one piece, is in the form of superposed parts and having vertical and horizontal grooves in its edges said blocks having a horizontal and a vertical passage extending therethrough from the vertical and horizontal grooves respectively.

In witness whereof we have signed this

specification in the presence of two witnesses.

CAROLINE KELLY.
THOMAS BEEVERS BELVOIR.

Witnesses:

ARTHUR C. NUCOMBE,
REGINALD J. RIDGEWELL.