Nov. 18, 1924.

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M. A. DAVIS INTERLOCKING BUILDING TILE Filed June 7, 1923 2

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MORRIS A. DAVIS Magarda Miller

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INTERLOCKING BUILDING TILE

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MORRIS A. DAVIS. By Hazard & Miller Attorneys.

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Patented Nov. 18, 1924.

UNITED STATES PATENT OFFICE.

MORRIS A. DAVIS, OF LOS ANGELES, CALIFORNIA.

INTERLOCKING BUILDING TILE.

Application filed June 7, 1923. Serial No. 643,927.

of the block is provided with a broad rib 7, Be it known that I, MORRIS A. DAVIS, a adapted to mortise into a recess such as is To all whom it may concern: citizen of the United States, residing at Los provided at 8 in the end face 9 of each block. Angeles, in the county of Los Angeles and The broad face pockets or channels 3 are of 60 5 State of California, have invented new and similar contour and approximately the same useful Improvements in Interlocking Build- dimensions as the tenon-like ribs 7, so that ing Tiles, of which the following is a speci- the blocks may be assembled in horizontal courses with the ends of one block abutting fication. the recessed end of another block in the same 65 This invention relates to interlocking straight course, or blocks may be abutted at right angles, with the tenon ribs 7 entering vide a building block or tile of hollow form the side pockets 3 of contiguous blocks. and which enables the building of a substan-This method of constructing a wall is tially hollow wall with continuous vertical clearly shown in Figures 1, 2 and 3. apertures which are separated by continuous The blocks are preferably provided with spaced air chambers 10, which are parallel to ner, plane and continuous wall faces which each other and extend from the top face 4 are adapted to be plastered over to present to the bottom face 5, so that when the blocks any desired finishing surface. An object is to provide an interlocking building block are erected in superimposed courses, they 75 will form within the wall continuous, vertical air spaces, and in the erection of walls square locking tenons, and the opposite face with the improved blocks, any of the continuous vertical air spaces may be filled with

10 building tiles, and has for its object to pro-15 vertical webs, or walls forming outer and in-20 having at the top and bottom one or more of the block is provided with mortises or recesses complementary to the tenons of con-

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- 25 tenons and their mortises enable the ready substantially monolithic, reinforcing column and accurate poitioning of the blocks either from top to bottom of the wall, or for any to form a plane wall or to form right an- such height in the wall as may be desired. gular, intersecting walls and corners of walls. While the filled pockets provide for an inter-
- so manifest in the following specification of an unfilled vertical air spaces provide an air embodiment of the invention illustrated in chamber and also form, therefore, a substanthe accompanying drawings, wherein— tially hollow wall.
- Figure 1 is a perspective showing a portion of a wall built of the improved build-35 ing blocks.
 - corner wall intersection.
- 40 larger scale.
 - recessed end of the block.
 - ribbed end of the block.

tiguous blocks. The square formation of the motar which, when solidified, will form a 80 Other objects and advantages will be made locking, pillar-like, reinforcing means, the 85

- The top and bottom faces of each block are adapted to be mutually interlocked when 90 applied in substantially meeting position, Fig. 2 is a plan showing a fragment of a and to accomplish this interlocking of the top and bottom faces, one of these faces is Fig. 3 is a section on the plane indicated provided, around the air chamber 10, with by line 3-3 of Figure 2; on a somewhat a rebated or countersunk seat 11, and the op-95 posite top or bottom face of each block is Fig. 4 is a perspective looking toward the provided with an upwardly extending tenon-like bead 12, more or less closely con-Fig. 5 is a perspective looking toward the forming in shape and dimensions to its seat 11, as presented by the next superimposed 100
- 45 Fig. 6 is a perspective of the recessed bot- or subjacent block. The tenon beads 12 are tom of the block.
 - Fig. 7 is a perspective of a half-block or "bat", one of the faces of which is provided with an interlocking rib, and
- Fig. 8 is a perspective of a ribless bat. 50 The building block of the present invention is of the monolithic type, and is generally oblong in plan, the opposite, longitudinal faces 2 and 2^a of the block being provided 55 with recesses or channels 3, extending from sively alternate position to break joints, top to bottom faces 4-5. One end wall 6 there will be produced alternate spaces by

adapted to match in their respective seats 11, whether the blocks are laid in linear courses or whether certain of the blocks are set at right angles to upper or lower 105 courses, as in the throwing of corner walls or intermediate partitions. Obviously, in corner wall structures, and also in walls having window or door openings in which the courses are laid in succes- 110

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the offset position of the course blocks, and other end with a seat to receive a contiguthese spaces are filled with half-blocks or ous rib of an adjacent block in a wall bats, such as are clearly shown at B in Fig- course, each of said pockets being capable ures 7 and 8.

5 in accordance with their positions in the face of the block, and the opposite, longiwall. The bat of Figure 7 is shown as pro-tudinal face having countersunk seats to vided on one face with an interlocking rib receive the tenon-like beads of a contiguous 7 to match into the end seats provided in a block, the block having an air chamber 10 contiguous block end 9. Other faces of the from top to bottom.

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of receiving said contiguous rib, interlock-These bats are of slightly different form, ing, tenon-like beads upon one longitudinal 70

bat of Figure 7 are provided with seats 3, to 4. A building block having its longitudireceive contiguous, ribbed end blocks. nal side faces provided with pockets from In Figure 8, the half-block or bat is top to bottom, one end of the block being shown as ribless, and has three of its faces provided with an interlocking rib and the 15 provided with seats 3. The bats of Figures other end with a seat to receive a contiguous 80 $\overline{7}$ and 8 have each a plane face 13, since rib of an adjacent block in a wall course, these are designed to be presented without each of said pockets being capable of reabutment either in a wall corner or in the ceiving said contiguous rib, interlocking, plumb faces of a wall opening. The bats tenon-like beads upon one longitudinal 20 B are each provided with beads 12 at their face of the block, and the opposite, longie 85 top or bottom faces, and with bead receiv- tudinal face having countersunk seats to ing seats 11, so that they will be interlocked receive the tenon-like beads of a contiguous with the upper or lower blocks in the wall block, the block having a plurality of air chambers extending side by side from top courses. 25 A feature of the block of the present in- to bottom and of symmetrical arrangement 90 vention is that when they are used in walls, and form, whereby, when the blocks are a contiguous stud S of a partition can be laid in superimposed courses, the chambers partially embedded in one of lateral or end of the blocks will register to form a continrecesses or pockets, and therefore form a uous vertical air space. substantial reinforce for the stud, as is 5. In a building block having its longi-95 shown in Figure 1. tudinal side faces provided with pockets Further embodments, modifications and from top to bottom, one end of the block variations may be resorted to within the being provided with an interlocking rib and principle of the invention. the other end with a seat to receive a con-35 What is claimed is: tiguous rib of an adjacent block in a wall 100 1. A building block having its longitudi- course, each of said pockets being capable nal side faces provided with pockets from of receiving said contiguous rib, interlocktop to bottom, one end of the block being ing, tenon-like beads upon one longitudinal provided with an interlocking rib and the face of the block, and the opposite, lon-⁴⁰ other end with a seat to receive a contigu- gitudinal face having countersunk seats to 105 ous rib of an adjacent block in a wall receive the tenon-like beads of a contiguous course, each of said pockets being capable block, the said beads being of square conof receiving said configuous rib, interlock- tour in plan, whereby the blocks may be ing, tenon-like beads upon one longitudinal laid in superimposed, linear courses and ⁴⁵ face of the block, and the opposite, longi- may be laid in right angular walls or par- 110 tudinal face having countersunk seats to titions intersecting each other and interreceive the tenon-like beads of a contiguous locked in such positions. block. 6. A building block having its longitudi-2. A building block of hollow construction nal side faces provided with pockets from tion and having its longitudinal side faces top to bottom, one end of the block being 115 50 provided with pockets from top to bottom, provided with an interlocking rib and the one end of the block being provided with other end with a seat to receive a contiguan interlocking rib and the other end with ous rib of an adjacent block in a wall a seat to receive a contiguous rib of an course, interlocking, tenon-like beads upon adjacent block in a wall course, each of one longitudinal face of the block, and the ¹²⁰ 55 said pockets being capable of receiving said opposite, longitudinal face having countercontiguous rib, interlocking, tenon-like sunk seats to receive the tenon-like beads beads upon one longitudinal face of the of a contiguous block, all of the pockets block, and the opposite, longitudinal face and recesses of a block being adapted to 60 having countersunk seats to receive the ten- receive a tenon-like projection of another 125 on-like beads of a contiguous block. block so as to interlock in one position there-3. A building block having its longitudi- with. nal side faces provided with pockets from In testimony whereof I have signed my top to bottom, one end of the block being name to this specification. provided with an interlocking rib and the MORRIS MORRIS A. DAVIS.