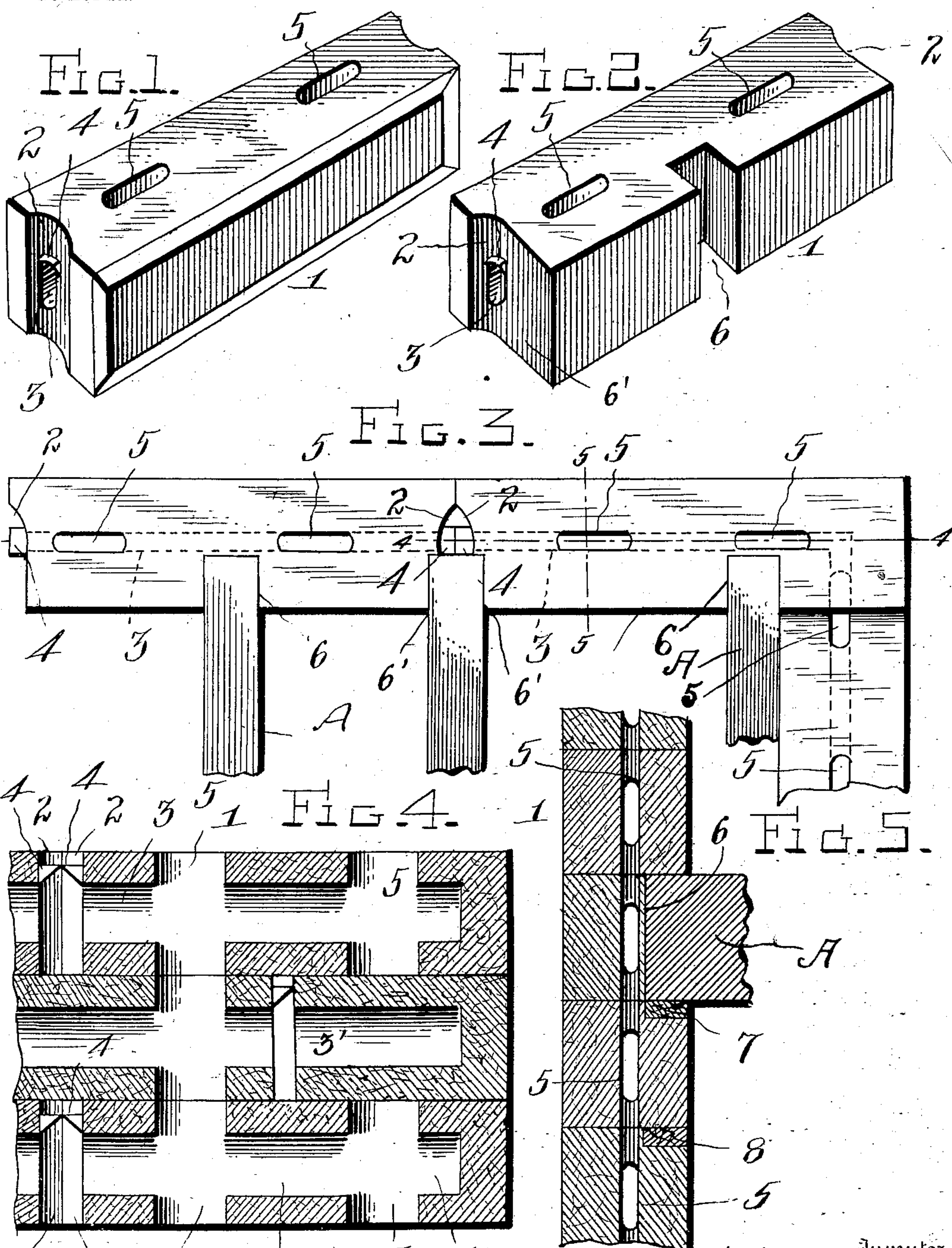


H. E. GOODWIN.
BUILDING BLOCK.

APPLICATION FILED APR. 20, 1903.

NO MODEL.



Inventor
Harry E. Goodwin.

Witnesses
Jas A. G. Koehl.
J. E. Wilson

By

H. E. Wilson

Attorney

UNITED STATES PATENT OFFICE.

HARRY EDWIN GOODWIN, OF INDIANAPOLIS, INDIANA:

BUILDING-BLOCK.

SPECIFICATION forming part of Letters Patent No. 735,870, dated August 11, 1903.

Application filed April 20, 1903. Serial No. 153,505. (No model.)

To all whom it may concern:

Be it known that I, HARRY EDWIN GOODWIN, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Building-Blocks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in cement building-blocks; and its object is to provide an article of this character which is simple in construction, comparatively inexpensive of production, and by the use of which a thoroughly-ventilated, strong, and durable wall may be erected.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of the front face of a building block or stone embodying my invention. Fig. 2 is a similar view of the rear face or inner side of a block, showing the same recessed or cut away to receive the ends of the joists. Fig. 3 is a plan view of a portion of a wall constructed of my improved blocks or stones. Fig. 4 is a vertical longitudinal sectional view taken on the line 4 4 of Fig. 3. Fig. 5 is a vertical transverse sectional view taken on the line 5 5 of Fig. 3.

Referring to the drawings by numerals and letters, 1 denotes a building-block, preferably of oblong rectangular form and provided in each of its ends with the vertical groove or channel 2.

3 denotes a ventilating-passage extending longitudinally through the center of the block and having its ends opening into the vertical end grooves 2.

4 denotes a shield or guard in the form of a lip or hood, which extends over the ends of the passage 3, for a purpose hereinafter explained. These hoods are of slightly-greater

width than the width of the passage 3 and extend out flush or in line with the end of the block or stone.

5 denotes vertical ventilating-passages, which intersect the longitudinal passage 3. Said passages are of an elongated oval shape in cross-section, with their greatest diameter extending longitudinally of the block. These vertical passages or holes are so spaced apart that in the building of the wall when the blocks are placed to break joints they will aline or register with the similar passages in the blocks of the courses above and below. This is clearly shown in Fig. 4.

In some of the blocks or stones I provide a slot or recess 6, as shown in Fig. 2, to receive and support the end of the floor-joist. This slot 6 is preferably in the center of the block. On the ends of the same blocks I also cut away a portion 6', so that a space of sufficient size to receive the end of a floor-joist will be formed when the ends of two blocks are placed together. This is clearly shown in Figs. 2 and 3. As shown in Fig. 5, I may, if desired, support the floor-joist A upon a small inlaid block or joist 7. It will be understood that the blocks in which these slots 6 and cut-away portions 6' are formed are only used where it is desired to support joists. In some of the blocks I also provide a strip of wood 8, which extends longitudinally the entire length of the block. This strip is for the purpose of attaching molding or other objects to, and when the wall is complete it extends the entire length of the wall.

Upon reference to Fig. 4 of the drawings it will be seen that a wall constructed of my improved bricks will be thoroughly ventilated by the passages 3 and 5, and in the building of the same the guard hoods or lips 4 will prevent any mortar or cement from entering and obstructing the passages 3. The passage 3 in the blocks or stones at the corners of the walls will not extend entirely through the block, but will communicate with a similar passage 3', which extends at right angles to the passage 3, as seen in Fig. 4. By providing the slots 6 and 6' and the inlaid blocks 7 it will be seen that the floor-joist will be well supported, and by the provision of the strips

8 picture-molding or other objects may be attached to the wall without difficulty and without injuring or defacing the same.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. A building - block provided with end grooves or channels, longitudinal passages communicating with said grooves, transverse passages intersecting said longitudinal passages, and guards or shields in said grooves over the ends of the longitudinal passages, substantially as described.

2. A building - block provided with end grooves or channels, a longitudinal passage communicating with said grooves, guard hoods or lips in said grooves over the ends of said passages, and vertical transverse passages intersecting said longitudinal passage, substantially as described.

3. A building - block provided with end grooves or channels, a longitudinal passage communicating with said grooves, guard hoods or lips in said grooves over the ends of said passages and vertical transverse passages intersecting said longitudinal passage, and slots or recesses adapted to receive the floor-joists, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HARRY EDWIN GOODWIN.

Witnesses:

E. E. SWIGERT,
J. O. SWIGERT.