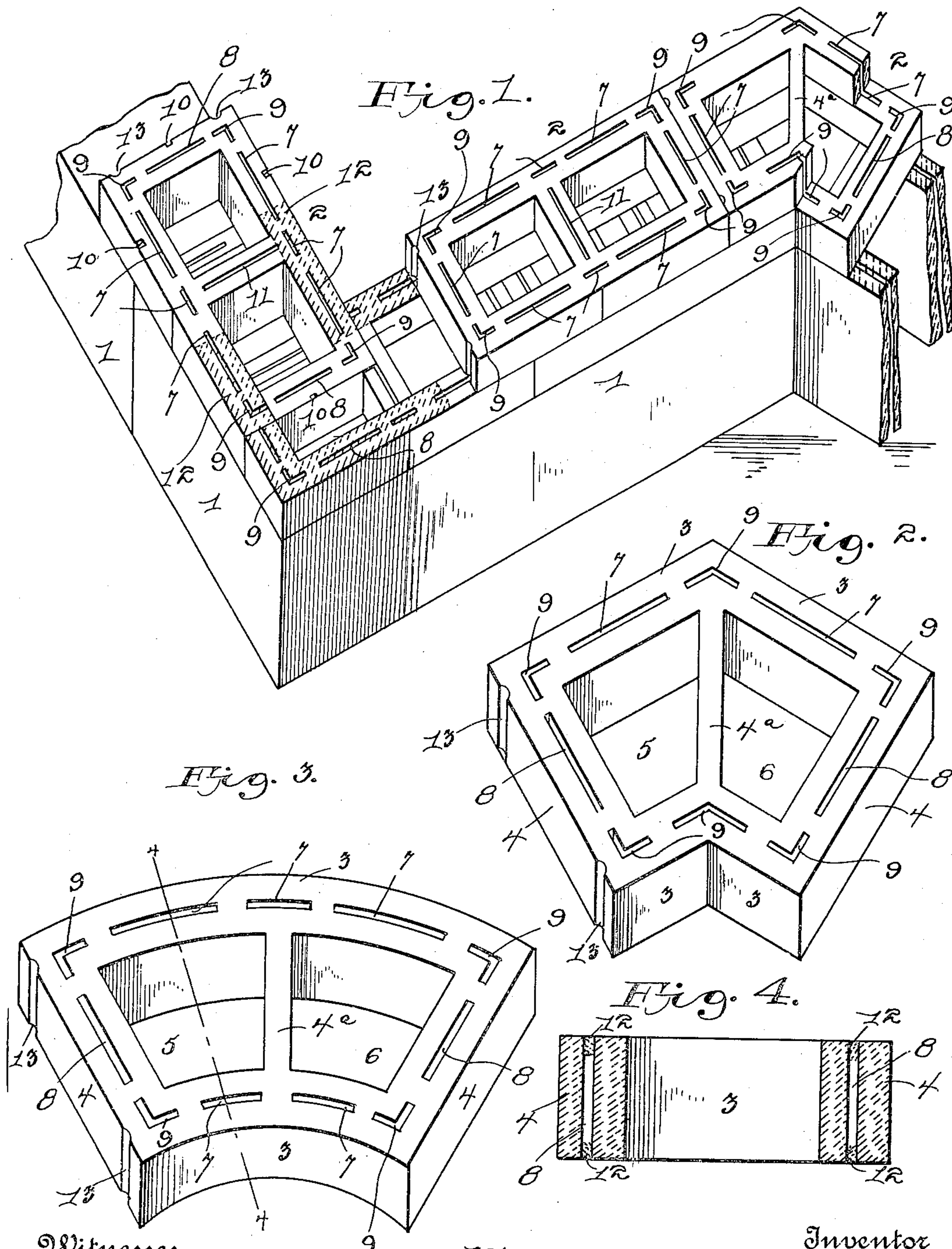


W. G. BATE.
BUILDING BLOCK.

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968,731.

Patented Aug. 30, 1910.



Witnesses
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UNITED STATES PATENT OFFICE.

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BUILDING-BLOCK.

968,731.

Specification of Letters Patent.

Patented Aug. 30, 1910.

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To all whom it may concern:

Be it known that I, WARWICK G. BATE, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Building-Blocks, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to walls of buildings, and especially to that class of building walls which are formed of hollow building blocks.

The invention has for its object to provide an improved wall for buildings formed of hollow building blocks so constructed and arranged as to afford sufficient protection against heat and cold.

Figure 1 is a perspective view of a portion of a wall constructed in accordance with this invention. Fig. 2 is a perspective view of a block adapted for corners or angles. Fig. 3 is a similar view of a block adapted for circular work. Fig. 4 is a transverse sectional view taken on the line 4-4, Fig. 3.

Referring to said drawings by numerals, and more particularly to Fig. 1 thereof, it will be observed that the blocks forming the wall shown in said figure are of two sizes, the lower blocks 1 being especially adapted for foundation work and the smaller blocks which are mounted thereon and designated by the numeral 2 are adapted for upper courses.

The blocks in all forms shown in the accompanying drawings embody the same idea and arrangement of air spaces or chambers, and hence it will be understood that the showing of the rectangular blocks, the angular blocks, and the semi-circular blocks is to illustrate the general application of the invention to blocks of various shapes. Said blocks are composed of the side walls 3, end walls 4 and transversely extending connecting partition 4^a which centrally divides the blocks into two open chambers 5 and 6. The side walls 3 are provided with two or more aligned vertical openings or slots 7 and the end walls are provided with a similar opening 8, and each corner of the blocks are provided with the angle openings or slots 9, all of said slots extending entirely through the block. The blocks may also be provided

with scoring arranged at their ends and sides, as indicated at 10 in Fig. 1, to facilitate the separating of the blocks when necessary or desirable. Some of the blocks, for instance the rectangular ones shown in Fig. 1 may have their transverse partitions 4 provided with a vertically extending opening 11.

In assembling the blocks to build a wall or other structure, the blocks may be arranged as suggested in Fig. 1, the mortar 12 (indicated by broken lines in Fig. 1) placed over the vertical openings of the block so that when the blocks are superimposed, some of the mortar will be forced into said openings, as indicated in Fig. 4, thereby sealing the openings, leaving air chambers in each wall of the blocks the heat and cold insulating advantages of which will be apparent.

It will be seen from the foregoing that with the use of blocks constructed in accordance with this invention, hollow walls may be formed, which are composed of a plurality of blocks, each having independent air chambers, said air chambers also forming the means whereby the blocks are securely held together owing to the interlocking engagement of the mortar therewith. The blocks are also preferably provided with end grooves 13 which serve to receive the mortar used between the abutting ends of the blocks.

What I claim as my invention is:—

A wall for buildings formed of building blocks, each made in one piece and provided with a plurality of open chambers, the side and end walls of said blocks having a series of elongated narrow vertical spaces located at intervals in said wall, and extending entirely through the walls from the top to the bottom thereof, and between the sides of said walls, and mortar spread between the adjacent tops and bottoms of said blocks and partly entering into said elongated narrow vertical spaces and binding said blocks together, and forming sealed air chambers in said blocks.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

WARWICK G. BATE.

Witnesses:

GEORGIA G. SMITH,
W. I. O'BRYAN.