No. 751,711. PATENTED FEB. 9, 1904.

E. O. BAYLOR.

BUILDING BLOCK.

APPLICATION FILED JUNE 1, 1903.

NO MODEL.

Fig. 1

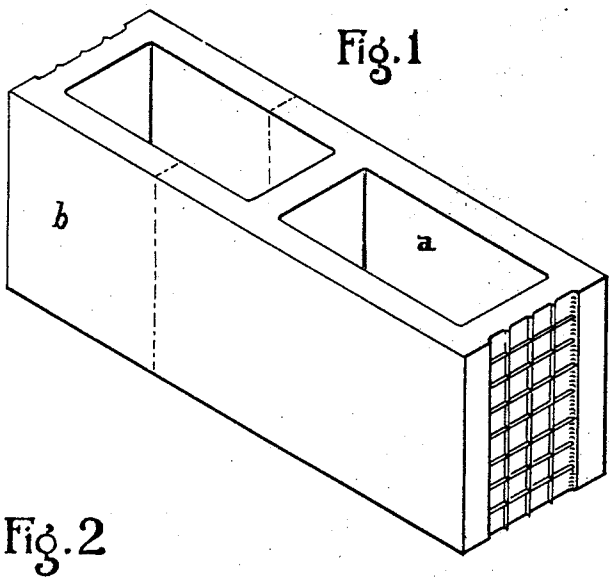
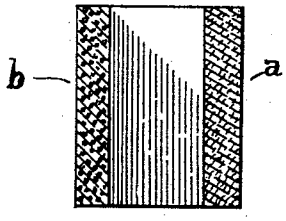


Fig. 2



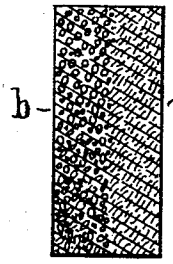


Fig. 3

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 751,711. Patented February 9, 1904.

UNITED STATES PATENT OFFICE.

ELWOOD O. BAYLOR, OF ADRIAN, MICHIGAN.

BUILDING-BLOCK.

SPECIFICATION forming part of Letters Patent No. 751,711, dated February 9, 1904.

Application filed June 1, 1903. Serial No. 159,414. (No model.)

To all whom it may concern:

Be it known that I, ELWOOD O. BAYLOR, a citizen of the United States, residing at Adrian, in the county of Lenawee and State of Michigan, 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to and its object is to provide an artificial building-block to take the place of bricks, stone, and similar materials used in the outside of buildings and lath and plaster and similar materials used for the inside of buildings, making a building that will assist in resisting fire, that is lighter than brick or stone, and which shall be cheap, strong, and durable. I attain these objects by means of the composition of ingredients and their arrangement, as hereinafter described, and shown and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my block ready for use; Fig. 2, a sectional elevation taken on the dotted lines in Fig. 1, and Fig. 3 a sectional elevation of a modified form of my block.

Each of my blocks, while formed in a single piece and integral, is composed of separate and distinct compositions or mixtures, one of which, *a*, is designed for the interior or unexposed portions of the block, the other, *b*, forming the exterior surface of that part of the block which is to be exposed to the action of the elements.

The interior and unexposed portions of my blocks are composed of sawdust, wood-pulp, or similar woody fibrous substances two parts, sharp sand one part, and Portland cement one part. The exposed surface of the block is composed of a hard and impervious concrete formed of sand-gravel or crushed stone three parts, and Portland cement one part. The two compounds are mixed with water separately and pressed together into suitable molds and are allowed to set and harden, the two compositions thus binding themselves together. The blocks are now ready for use.

It will be understood that the proportions here given are merely approximate and that they may be varied according to the quality of the materials and the varying conditions under which the blocks are to bs used.

The interior portion of the building-block, or that part composed of woody fibrous substances, sand, and Portland cement, is intended in building to take the place of studs, laths, and plaster, as it will take and hold a nail or screw, the interior trimmings can be fastened to it, and it can be finished with a finishing-coat of plaster to hide the joints or the joints can be painted.

In the drawings I have illustrated two forms of blocks, one being hollow and the other solid.

It is obvious that my invention is applicable to a great variety of block forms, and I do not, therefore, limit my invention to the specific form of block here illustrated.

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

1. An integral building-block having its exposed surface formed of a hard substantially impervious concrete, the remainder of the block being composed of a woody fibrous substance, sand and Portland cement in substantially the proportions specified.

2. In a building-block the body thereof consisting of a woody fibrous substance, sand and Portland cement in substantially the proportions specified and having its exposed portions formed of sand and cement in substantially the proportions specified.

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

ELWOOD O. BAYLOR.

Witnesses:

JOSEPH P. LIBS,

FRED E. ASH.