Jan. 27, 1925. 1,524,147

R. MURRAY

BUILDING BLOCK

Filed Nov. 14, 1923

Fig. 1,

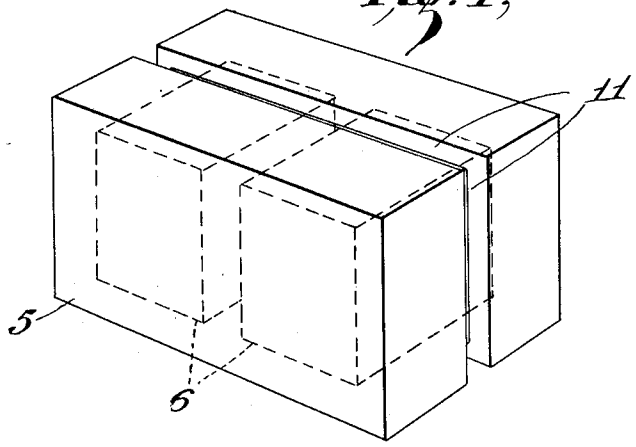


Fig. 2,

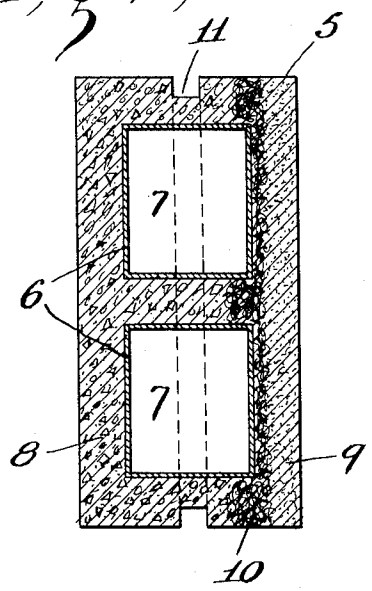


Fig. 3,

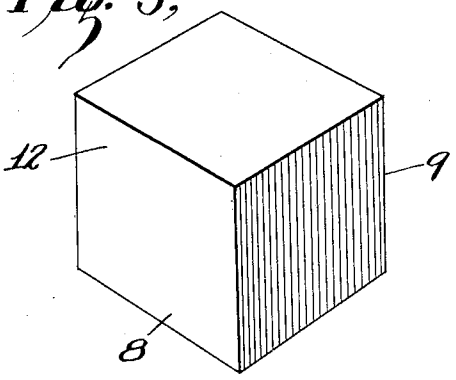
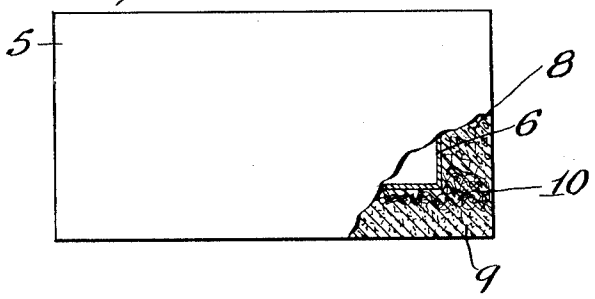


Fig. 4,



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UNITED STATES PATENT OFFICE.

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BUILDING BLOCK.

Application filed November 14, 1923. Serial No. 674,648.

To all whom it may concern:

Be it known that I, RICHARD MURRAY, a citizen of the United States, and residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Building Blocks, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to building bricks or blocks used in the construction of comparatively small buildings; that is to say, buildings of one, two or three story height, and the object of the invention is to provide a building brick or block of the class specified, which is so constructed as to form the entire or complete wall of a building and to provide finished inner and outer faces for such wall or walls, a further object being to provide a brick or block composed of two different grades of material with means for binding the separate materials together, one of the materials employed forming the outer face of the brick or block, and the other, the inner face thereof; a still further object being to provide a hollow brick or block of the class specified, whereby the construction thereof will provide a comparatively light and yet strong and durable brick or block, and also whereby the cost of production or manufacture thereof is materially reduced, the periphery of the brick or block being also provided, if desired, with a groove to facilitate the interlocking of adjacent bricks or blocks; and with these and other objects in view, the invention consists in a brick or block of the class and for the purpose specified, constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Fig. 1 is a perspective view of one form of block made according to my invention.

Fig. 2 is a longitudinal sectional view through the block shown in Fig. 1.

Fig. 3 is a view similar to Fig. 1 showing a modified form of block; and,

Fig. 4 is a plan view of a block similar to that shown in Figs. 1 and 2 but showing a modification.

In Figs. 1 and 2 of the drawing, I have shown at 5 one form of brick or block 5 made according to my invention, said block being oblong and rectangular in form. In constructing the brick or block, I provide two box-shaped core pieces 6 which are rectangular in form and composed of inexpensive material, such for example as cardboard or the like, and these core pieces are imbedded in the brick or block in its formation and are spaced apart to provide in the completed brick or block, chambers 7.

Surrounding the core pieces 6 and 7 is a body of concrete, cement or the like 8 and a body of plaster or plastic composition 9, these bodies being joined together by a body 10 composed of long strands of fibrous material, hair or the like, into which the material of the separate bodies 8 and 9 is imbedded and saturated as will be apparent. The body 8 constitutes the outer face of the brick or block and extends through substantially two thirds of the depth of the brick or block, while the body 9 constitutes the inner face of the brick or block and is adapted to form or provide a finished inner face for the wall or walls of a building.

In the construction shown in Figs. 1 and 2, the periphery of the brick or block 5 or the top, bottom and end walls thereof are provided with intercommunicating grooves 11 which are adapted to function as means for keying adjacent bricks or blocks together, said grooves providing means for receiving key pins or bars, or for receiving mortar, cement or the like in the construction of a wall.

In Fig. 3 of the drawing, I have shown a brick or block 12, which is rectangular in form and within which is a single core piece 6, the block 12 being constructed in precisely the same manner as the construction of the block 5 shown in Figs. 1 and 2, but provided with the separate bodies 8, 9 and 10 forming finished outer and inner faces 8 and 9, it being understood that the block 12 is substantially one half the size of the block 5, and the grooves 11 have been omitted, as it is not absolutely necessary that these grooves be employed. In Fig. 4 of the drawing I have shown a block similar to that shown in Figs. 1 and 2 both in shape and construction, the only difference being that the grooves 11 have been omitted.

By constructing a brick or block as herein set out, I provide a comparatively light brick or block and yet one which has the

required strength for the use for which it is intended, for example in the construction of comparatively low buildings, and further it will be apparent that my improved brick or block, or after a number of said bricks or blocks have been assembled in the construction of the walls of a building, will provide finished inner and outer faces for such walls, the outer face being a concrete or cement composition, while the inner, a plastic facing, and by using my improved brick or blocks, the construction of the walls of a building is materially simplified, and the cost of material reduced, and also effecting a decided saving in the time and labor in the construction of a building.

It will be understood that I am not necessarily limited to the use of any specific number of core pieces 6, nor to the specific shape thereof herein shown and described nor am I limited to any specific combinations of materials in the construction of the brick or block, and various changes in and modifications of the construction herein shown and described may be made within the scope of the appended claims, without departing from the spirit of my invention or sacrificing its advantages.

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

1. A brick or block of the class described composed of two different bodies of material, one of said bodies forming one face of the brick or block, and the other the other face thereof, one of said bodies extending through the greater portion of the depth of said brick or block, and a body of binding material for joining the separate bodies together, said last named body being composed of long strands of irregularly arranged fibrous material.

2. A brick or block of the class described composed of two different bodies of material, one of said bodies forming one face of the brick or block, and the other the other face thereof, one of said bodies extending through the greater portion of the depth of said brick or block, a body of binding material for joining the separate bodies together, said last named body being composed of long strands of irregularly arranged fibrous material, and said block being hollow.

3. A building block of the class described composed of two different materials, one of which forms one face of the block, and the other the body portion and remaining face thereof, means for binding said material together to form a unitary block, a hollow core piece embedded in said block, the inner face of said core piece being substantially in the same plane as the inner portion of the facing material, and the binding means extending rearwardly of said face portion of the core member.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 10th day of November, 1923.

RICHARD MURRAY.