Oct. 4, 1927.

1,644,599

G. W. McDEARMON

BUILDING BLOCK

Filed Oct. 2, 1924

2 Sheets-Sheet 1

Fig. 1.

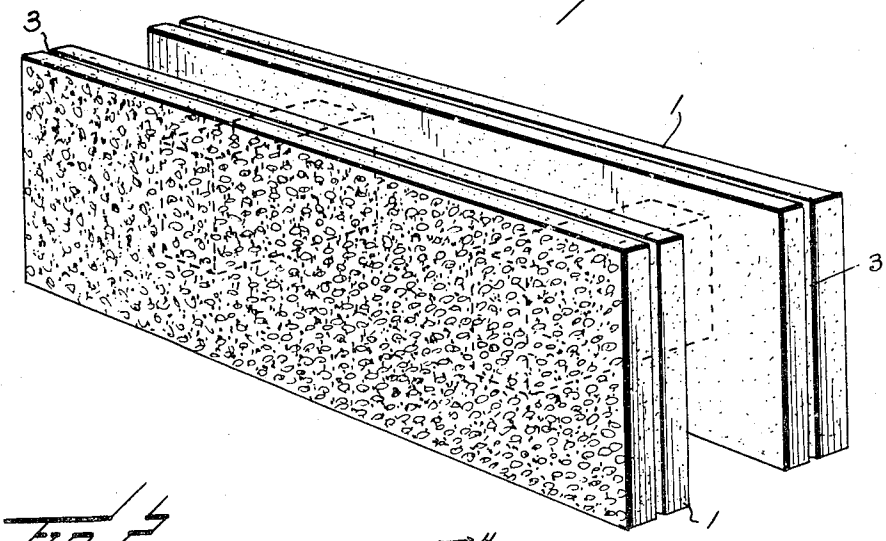


Fig. 2.

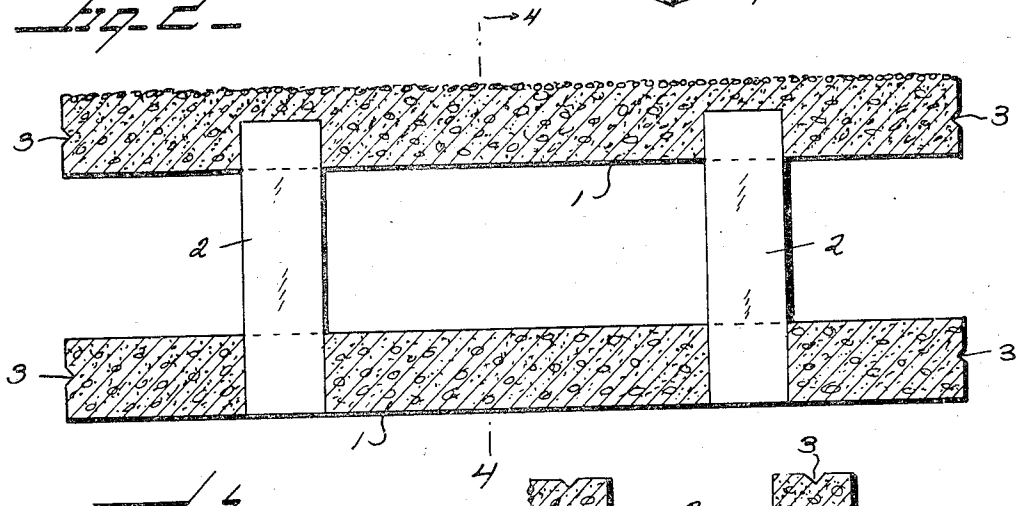


Fig. 3.

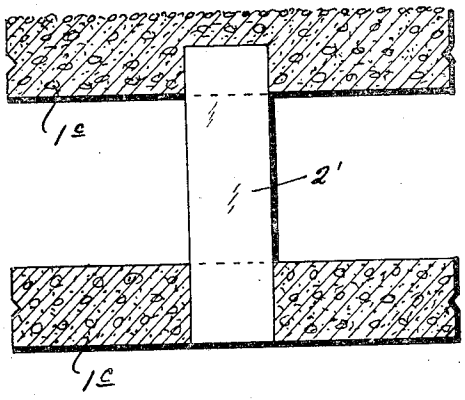
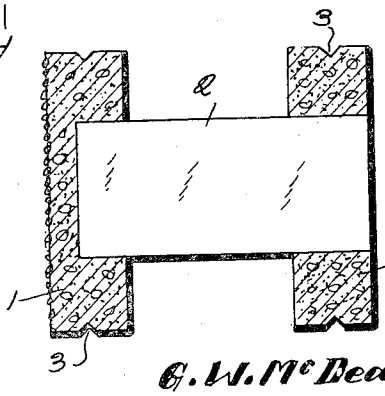


Fig. 4.



Inventor

G. W. McBearmon

By Watson & Coleman

Attorney

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G. W. McDEARMON

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Fig. 5.

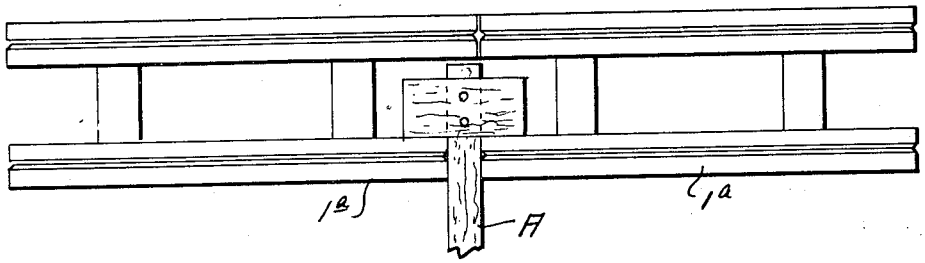


Fig. 6.

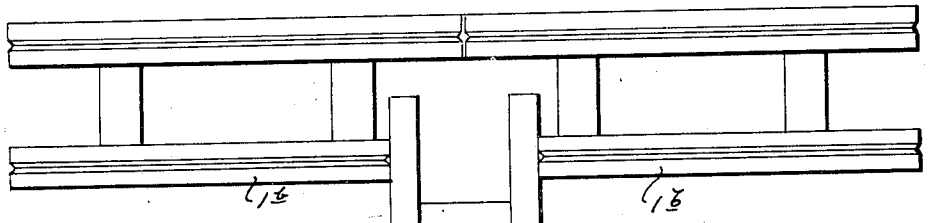


Fig. 7.

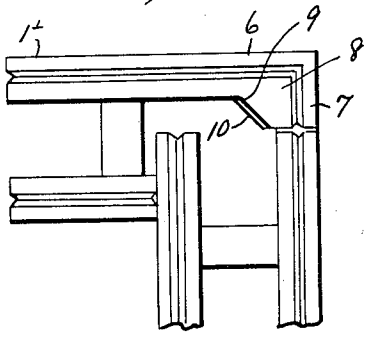


Fig. 10.

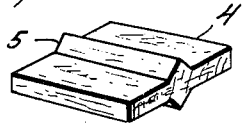


Fig. 9.

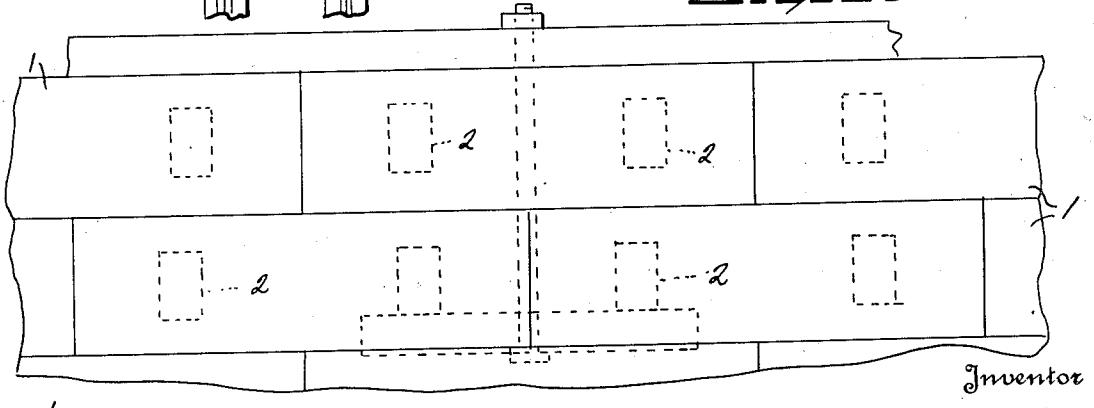
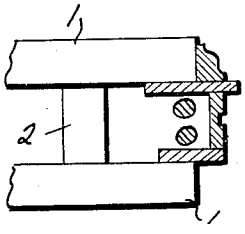


Fig. 8.



Inventor

G. W. McDearmon

By Watson E. Coleman

Attorney

Patented Oct. 4, 1927. 1,644,599

UNITED STATES PATENT OFFICE.

GEORGE W. McDEARMON, OF NEW ORLEANS, LOUISIANA.

BUILDING BLOCK.

Application filed October 2, 1924. Serial No. 741,255.

This invention relates to certain improvements in building blocks and it is an object of the invention to provide a novel and improved block of this general character which affords effective protection against frost and dampness and also constructed in a manner whereby plaster may be applied directly to the inside surface thereof without the use of lathing.

It is also an object of the invention to provide a novel and improved device of this general character comprising spaced slabs effectively connected and held in desired assembled relation, said connecting means providing hand grasps whereby the block may be readily manipulated by the workman and whereby the blocks may be laid with precision.

An additional object of the invention is to provide a block of this general character comprising spaced slabs made from a wet mix together with ties connecting said slabs and maintaining the same in desired assembled relation, said ties constituting clay bricks whereby the completed block possesses a maximum of strength.

The invention also has for an object to provide a novel and improved block comprising spaced slabs and wherein the edge walls of said slabs have disposed therealong bond grooves whereby the holding mortar or the like effectively holds the block against slippage and which grooves also permit the effective placing or mounting of a ground between adjacent blocks.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved building block whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein:—

Figure 1 is a view in perspective of a block constructed in accordance with an embodiment of my invention;

Figure 2 is a longitudinal sectional view taken through the block as illustrated in Figure 1 with the tie members in top plan;

Figure 3 is a view partly in section and partly in top plan illustrating a block constructed in accordance with a further embodiment of my invention;

Figure 4 is a sectional view taken substantially on the line 4—4 of Figure 2;

Figure 5 is a fragmentary view in plan illustrating another embodiment of my invention and wherein the blocks are adapted for use in connection with a floor joist;

Figure 6 is a view in top plan illustrating still another embodiment of my invention whereby a partition wall may be assembled with respect to an outside wall;

Figure 7 is a view in top plan illustrating a still further embodiment of my invention for use at a corner;

Figure 8 is a view partly in plan and partly in section illustrating how a window frame may be assembled in connection with my improved block;

Figure 9 is a fragmentary elevational view of a wall constructed of blocks made in accordance with an embodiment of my invention and showing how a roof plate may be held to the wall;

Figure 10 is a view in perspective of the wood ground.

As particularly illustrated in Figures 1, 2 and 3 of the drawings, my improved block comprises a pair of spaced slabs 1 preferably formed of a dry mixed concrete, said slabs being connected by the ties 2. Each of the ties 2 preferably comprise a common clay brick as generally employed. An end portion of said tie partially extends within one of the slabs 1 while the opposite end portion extends entirely through the second slab with its end face substantially flush with the outer face of such slab.

The tie members or bricks 2 provide effective grips whereby the block in its entirety may be readily manipulated by a workman and whereby a block may be set in a wall with utmost precision. The tie members 2 are preferably positioned at the transverse centers of the slabs 1 and a decided distance inwardly of the ends thereof. These tie members 2 which, as hereinbefore stated, are common clay bricks readily absorb moisture which may be between the slabs resulting in a wall that is both damp and frost proof and which condition is further facilitated in view of the fact that an end of a tie 2 extends entirely through one of the slabs whereby the drying efficiency or character-

istic of the tie is materially increased. Furthermore, the tie 2 draws the moisture out of the slabs and holds it until it can pass out through the hollow walls. This feature is of especial value and importance as in actual practice there has been clearly established the fact that the tie overcomes the disadvantage of dampness and sweating collecting on the inside wall.

The inner or exposed end of the tie 2 also provides a bonding area for the plaster applied to the wall as such plaster will adhere better to the tie 2 than to the surface of the slab.

The edge walls or faces of each of the slabs 1 have disposed entirely therealong the bond grooves 3 which, when filled with mortar between two courses, renders slipping almost impossible. From the standpoint of the workman, these grooves make it much easier to lay the blocks as the grooves form an opening which allow the blocks to settle down exactly to line and the grooves providing a space for surplus mortar. These grooves 3 also permit the effective insertion between adjacent blocks of a ground plate 4 of wood, said plate being provided in opposed surfaces with the outstanding ribs 5 which snugly engage within the adjacent grooves 3. These grounds are adapted to be positioned within a wall as the occasions of practice may require to permit the proper mounting of picture molding and the like.

The slabs 1 are spaced apart a distance to provide a relatively thick wall whereby liability of overturning is prevented and by employing bricks as the tie members a maximum of strength in assured as such bricks will be considerably stronger than the use of concrete ties.

In Figure 5 I illustrate a pair of blocks adapted to provide for the effective mounting of a floor joist and wherein it is to be noted that an end of an inner slab 1^a terminates a slight distance inwardly of the outer slab providing a space which will readily receive an end portion of a joist A and permitting said joist to extend within the space between the slabs.

As illustrated in Figure 6, the inner slabs 1^b also terminate inwardly of the outer slabs to provide a second space and wherein the blocks of a partition wall may be readily interlocked with the outer wall.

In Figure 3 I illustrate a further embodiment of my invention wherein the block is relatively short as may be required and having only a single tie member or brick 2′ connecting the central portion of the slabs 1^c.

In Figure 7 I illustrate an embodiment of my invention wherein the block is constructed for use at the corner of a wall and wherein the outer slab 1′ is extended as at 6, a desired distance beyond the inner slab, said extended portion 6 terminating in a rearwardly disposed rightangular face 7. The portion 7 and the adjacent part of the extension 6 are reinforced, as at 8, said reinforced portion having an inclined inner face 9 provided with an outstanding flange 10, said flange 10 providing a ready hand grasp for the worker in carrying or setting the block.

In Figure 8 I illustrate the ease with which a window frame may be constructed in connection with my improved block and as the same is believed to be obvious from such Figure 8 a detailed description relative thereto is unnecessary.

It is to be noted that the outer face of one of the slabs of my improved block may be roughened as by small stones or pebbles to give a finish to the block and it is also believed to be readily understood that in forming the slab of a dry mix, plaster may be readily applied to the inner surface of a wall without requiring the use of laths as is now generally done.

From the foregoing description it is thought to be obvious that a building block constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:—

1. A building block comprising a pair of spaced concrete slabs, and a clay brick connecting said slabs and constituting a moisture absorbing element, one end portion of the brick partially extending within one of the slabs while the opposite end portion of the brick extends entirely through a second slab with its end face substantially flush with the outer face of said second slab.

2. A building block comprising a pair of spaced concrete slabs, and a tie member connecting said slabs, said tie member being an absorbent of moisture, one end portion of the time member partially extending within one of the slabs while the opposite end portion of the tie member extends entirely through a second slab with its end face substantially flush with the outer face of said second slab.

In testimony whereof I hereunto affix my signature.

GEORGE W. McDEARMON.