

PATENT SPECIFICATION

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COMPLETE SPECIFICATION

An improved Building Block

I, MARY KATHLEEN MURIEL MASON, British Subject, of the Prior's Kitchen Hotel, Frimley, Near Aldershot, Hampshire, do hereby declare the invention, for which I pray that a Patent may be granted to me, and the method by which it is to be performed to be particularly described in and by the following statement:—

This invention relates to the provision of improved building blocks, bricks or slabs and the like hereinafter referred to generically as blocks.

One object of the present invention is to provide an improved building block which is cheap to manufacture and which can be laid easily and conveniently by unskilled labour.

According to the present invention I provide an improved hollow building block shaped to interlock or inter-engage with adjacent blocks above and below and at each end by means of simple longitudinal and vertical recesses and projections extending substantially along the full length of the top and bottom of the block and substantially for the full height at each end of the block the recess and projection at the ends being formed by a vertical straight sided projection down one side of one end of the block and a vertical straight sided rebate at the same side of the other end of the block and the block being substantially square in end elevation and substantially rectangular in side elevation whereby a cavity wall structure can be built up with only one tier of blocks.

It will be understood that a wall or a building may easily be built by using my improved blocks. The interlocking or inter-engaging ensures that the blocks are properly laid to give a vertical wall, imparts strength to the construction and prevents gaps extending straight through the wall. When laying my improved blocks I may use mortar, cement or the like between the blocks or I may use dry laying or I may use a plastic or like securing means or a bitumen mastic which may be supplied in tubes or other suitable securing means.

In order that the invention may be clearly understood and readily carried into effect ref-

erence is now directed to the accompanying drawings, in which:—

Figure 1 is a plan of a block embodying the invention;

Figures 2 and 3 are respectively a perspective view and an end elevation thereof;

Figure 4 is a plan of a special corner block;

Figures 5 and 6 are respectively a side elevation and an inverted plan thereof and Figure 7 is a modification in plan.

According to one embodiment of the invention described as an example my improved block 1 is substantially rectangular in side elevation and substantially square in end elevation. The centre of the bottom of the block 1 may be provided with a longitudinal recess 2 so that the bottom of the block is of straight sided channel section and the top of the block 1 may be rebated at 3 along each longitudinal edge to provide a central straight sided projecting part 4. By this arrangement the projecting part 4 of a block below may fit along its length into the recess 2 of a block above or vice versa to effect vertical interengagement. In like manner one end of a block is provided with a vertical straight sided projection 6 extending down one side of that end of the block and the other end is provided with a vertical straight sided rebate 5 at the same side so that one end of a block may fit into the adjacent end of the next block to effect lateral engagement.

My improved block is substantially rectangular in plan and I provide an aperture 7 extending from top to bottom through the centre of the block. The aperture which is preferably rectangular to match the shape of the block ensures that a cavity type wall is produced by using the blocks. If desired metal or other strengthening means or ties may be used to couple two or more adjacent blocks.

My blocks are preferably surface treated so that the outside surface is weatherproof.

If desired I may provide a modified form of block with an aperture shaped to receive strengthening means such as vertical steel rods and more than one aperture may be provided in each block, for example a web member 8

[Price 3s. 6d.]

may be provided to divide the aperture 7 into two sections. In this case cement or the like may be poured into one or more of the holes so that the blocks are positively interconnected by columns of cement or the like with or without a reinforcing rod.

In order to provide flush corners, I may provide corner blocks, see figures 4, 5 and 6. Each corner block is of the same general shape and size as a standard block but differs in this respect, that the rebate 3 extends along one end of the block as indicated at 3A and that the recess 2 is bounded at one end by a depending projection 2A which is a continuation of one of the side projections defining the recess 2. A projection 2B flush with the projection 2A also defines the recess, but this projection 2B terminates at a mid-position of the block so that the recess 2 may receive a part of the projecting part 4 of a similar corner block disposed immediately below and at right angles to the block above.

My improved blocks may be precast and may be made of any suitable material or they may be manufactured in the manner of bricks.

It will therefore be understood that the underlying idea of my invention is to provide an improved building block adapted to interlock at each end and at the top and bottom with adjacent blocks by means of simple longitudinal and vertical recesses and projections extending along the full length of the top and bottom of the blocks and for the full height at each end of the blocks, a vertical central aperture being provided to make a cavity wall.

Instead of using the web 8 I may use an inserted partition member as shown in figure 7. The partition may be of metal or other suitable material such as asbestos and it is a permanent fixture if cement or other material is filled into the block but before filling the partition can be removed at will.

What I claim is:—

1. An improved hollow building block shaped to interlock or inter-engage with adjacent blocks above and below and at each end by means of simple longitudinal and vertical recesses and projections extending substantially along the full length of the top and bottom of the block and substantially for the full height at each end of the block the recess and projection at the end being formed by a vertical straight sided projection down one side of one end of the block and a vertical straight sided rebate at the same side of the other end of the block and the block being substantially square in end elevation and substantially rectangular in side elevation whereby a cavity wall structure can be built up with only one tier of blocks.

2. An improved building block according to claim 1 characterised by the provision of a central longitudinal recess at the bottom and a rebated part along each longitudinal top edge.

3. An improved building block according to claim 1 characterised in this that the internal aperture of the hollow block is divided into two sections by a vertical web or by an inserted partition member.

4. A corner block according to claim 1 and substantially as hereinbefore described with reference to figures 4 to 6 of the accompanying drawings and for use in combination with the block substantially as illustrated in figure 2 to produce a flush corner.

5. An improved building block substantially as hereinbefore described with reference to figures 1 to 3 of the accompanying drawings.

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PROVISIONAL SPECIFICATION

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This invention relates to the provision of improved building blocks, bricks or slabs and the like hereinafter referred to generically as blocks.

One object of the present invention is to provide an improved building block which is cheap to manufacture and which can be laid easily and conveniently by unskilled labour.

According to the present invention I provide an improved building block characterised in this that the block is shaped to interlock or interengage with adjacent blocks above and below and at each end and that the block is

hollow so that a cavity wall may be produced by one layer of my blocks.

It will be understood that a wall or a building may easily be built by using my improved blocks. The interlocking or interengaging ensures that the blocks are properly laid to give a vertical wall, imparts strength to the construction and prevents gaps extending straight through the wall. When laying my improved blocks I may use mortar, cement or the like between the blocks or I may use dry laying or I may use a plastic or like securing means or a bitumen mastic which may be supplied in tubes or other suitable securing means.

According to one embodiment of the invention described as an example my improved block may be substantially rectangular in side elevation and substantially square in end eleva-



may be provided to divide the aperture 7 into two sections. In this case cement or the like may be poured into one or more of the holes so that the blocks are positively interconnected by columns of cement or the like with or without a reinforcing rod.

In order to provide flush corners, I may provide corner blocks, see figures 4, 5 and 6. Each corner block is of the same general shape and size as a standard block but differs in this respect, that the rebate 3 extends along one end of the block as indicated at 3A and that the recess 2 is bounded at one end by a depending projection 2A which is a continuation of one of the side projections defining the recess 2. A projection 2B flush with the projection 2A also defines the recess, but this projection 2B terminates at a mid-position of the block so that the recess 2 may receive a part of the projecting part 4 of a similar corner block disposed immediately below and at right angles to the block above.

My improved blocks may be precast and may be made of any suitable material or they may be manufactured in the manner of bricks.

It will therefore be understood that the underlying idea of my invention is to provide an improved building block adapted to interlock at each end and at the top and bottom with adjacent blocks by means of simple longitudinal and vertical recesses and projections extending along the full length of the top and bottom of the blocks and for the full height at each end of the blocks, a vertical central aperture being provided to make a cavity wall.

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3. An improved building block according to claim 1 characterised in this that the internal aperture of the hollow block is divided into two sections by a vertical web or by an inserted partition member.

4. A corner block according to claim 1 and substantially as hereinbefore described with reference to figures 4 to 6 of the accompanying drawings and for use in combination with the block substantially as illustrated in figure 2 to produce a flush corner.

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hollow so that a cavity wall may be produced by one layer of my blocks.

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According to one embodiment of the invention described as an example my improved block may be substantially rectangular in side elevation and substantially square in end eleva-

- tion. The centre of the top of the block may be provided with a longitudinal cut away portion so that the top of the block is of straight sided channel section and the bottom of the block may be rebated along each longitudinal edge to provide a central straight sided projecting part. By this arrangement the projecting part of a block above may fit along its length into the cut away portion of a block below or vice versa to effect vertical interengagement. In like manner one end of a block may be provided with a central vertical straight sided projection extending down that end of the block and the other end may be provided with a central vertical straight sided channel so that one end of a block may fit into the adjacent end of the next block to effect lateral engagement.
- My improved block may be substantially rectangular in plan and I provide an aperture extending from top to bottom through the centre of the block. The aperture which is preferably rectangular to match the shape of the block ensures that a cavity type wall is produced by using the blocks. If desired metal or other strengthening means or ties may be used to couple two or more adjacent blocks.
- My blocks are preferably surface treated so that the outside surface is weatherproof and

the inside surface is suitable for internal use.

If desired I may provide a modified form of block with an aperture of special shape to receive strengthening means and more than one aperture may be provided in each block. In this case cement or the like may be poured into one or more of the holes so that the blocks are positively inter-connected by columns of cement or the like with or without a reinforcing rod. Further specially shaped blocks may be provided for corners, to take windows and doors and so on, and these may be reinforced as described.

My improved blocks may be precast and may be made of any suitable material or they may be manufactured in the manner of bricks.

It will therefore be understood that the underlying idea of my invention is to provide an improved building block adapted to interlock at each end and at the top and bottom with adjacent blocks by means of simple longitudinal and vertical recesses and projections extending along the full length of the top and bottom of the blocks and for the full height at each end of the blocks, a vertical central aperture being provided to make a cavity wall.

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