Dec. 18, 1928. 1,695,443

G. STUDLEY, JR

BUILDING BLOCK

Filed Sept. 16, 1927

Fig. 1

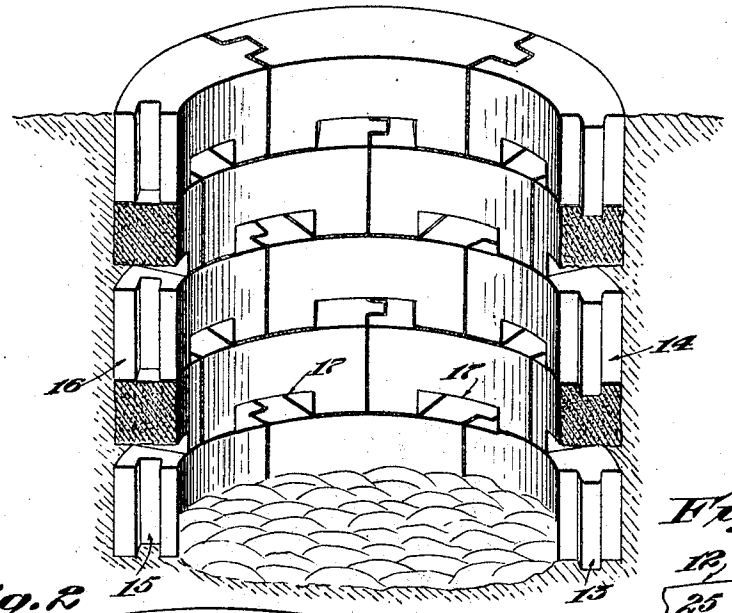


Fig. 5

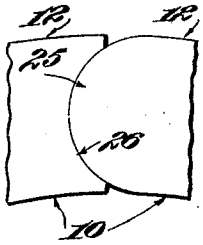


Fig. 2

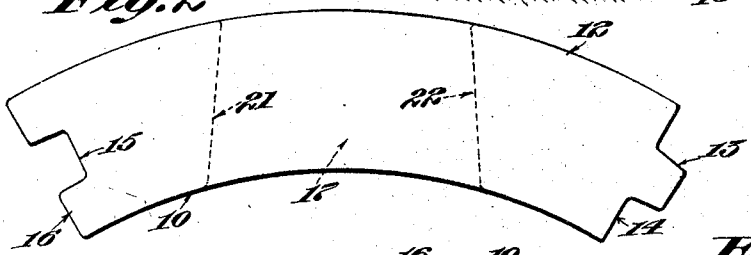


Fig. 3

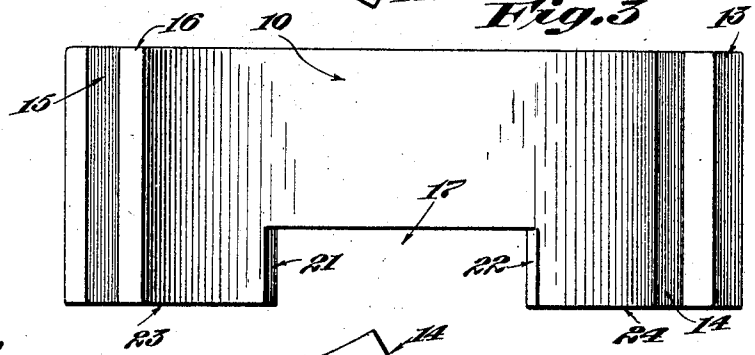
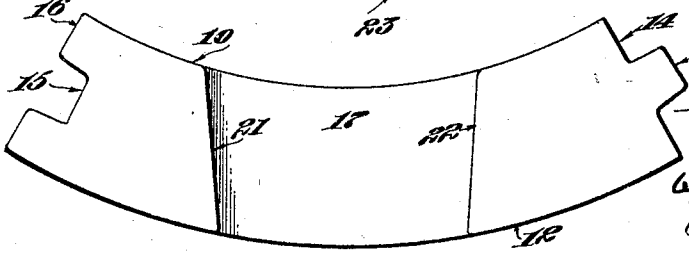


Fig. 4



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UNITED STATES PATENT OFFICE.

GILBERT STUDLEY, JR., OF YARMOUTH, MASSACHUSETTS.

BUILDING BLOCK.

Application filed September 16, 1927. Serial No. 219,878.

This invention relates to a cementitious building block, particularly adapted for use in constructing cesspools, drains and the like.

The object of the invention is to provide a building block of the character specified, of a novel and superior construction, which is particularly adapted for the construction of the walls of a cesspool or drain, in a rapid and economical manner and which provides for most efficient drainage through the wall.

A further object of the invention is to provide a novel construction of molded, cementitious, building block, which is particularly adapted for use in the construction of drains and cesspools, and the construction of which is such as to facilitate the molding operation.

With these objects in view, and such others as may hereinafter appear, the invention consists in the cementitious molded block hereinafter described and particularly defined in the claims at the end of this specification.

In the drawing illustrating the preferred embodiment of the invention, Fig. 1 is a perspective view of a part of a cesspool or drain constructed of building blocks embodying the present invention; Fig. 2 is a plan view of the improved block; Fig. 3, a front view of the same; Fig. 4 is a bottom plan view of the block shown in Fig. 3; and Fig. 5 is a detail showing a modified form of tongue and groove construction.

Referring to the drawing, the improved building block is preferably composed of hardened, cementitious material, such as Portland cement and sand, formed into special shape as will be described.

Referring now to the drawing, the illustrated building block is preferably composed of a mixture of cement and sand in any usual or preferred proportions, and may be molded in a suitable mold to provide the block with curved inner and outer sides 10, 12, with a tongue 13 upon one end wall 14, and with a groove 15 on the other end wall 16.

The block is further provided with a drainage slot 17, preferably molded in the bottom wall of the block, and extended from the outer to the inner sides 10, 12 of the block to permit free drainage therethrough.

In order to facilitate the molding operation, and particularly the operation of withdrawing the block from the mold, I prefer to bevel or taper the side walls 21, 22 of the slot 17, and preferably in a direction from the inner side 10 to the outer side 12, as shown.

In practice, I prefer to mold the cementitious blocks in approximately the following dimensions: length 16 inches; width 4 inches; and height 8 inches. The drainage slot is preferably made of a length of about 7¼ inches at the inner wall 10 of the block, and 7 inches at the outer wall of the block. The slot is preferably disposed centrally of the length of the block, leaving bearing portions 23, 24 in the bottom wall of the block of substantially 3½ inches in length. The drainage slot is preferably made about 2⅛ inches in height.

The side walls of a cesspool or drain may be rapidly and economically constructed by use of the present block, and in use succeeding tiers of the blocks are laid up, either with or without grout, with the tongue of one block fitted into the groove of the next adjacent block, as illustrated in Fig. 1.

The curvature of the block and the tongue and groove construction enable the blocks to be laid up on any desired curvature within practical limits, the grooves being made sufficiently larger than the tongues to provide for some clearance.

In laying up the wall, it is also preferred to lay the blocks so as to break joints, and when so laid, the drainage slots are spaced to distribute the drainage effectively, as will be apparent from inspection of Fig. 1.

The provision of the elongated drainage slot is conducive to insuring efficient drainage at all times with minimum liability of the slots becoming stopped up.

In addition the simplicity of the present construction of block enables the blocks to be manufactured more economically than other constructions of drainage blocks of which I am aware.

The provision of the bevel end walls 21, 22 of the drainage slot, enables the blocks to be readily removed from the molds with minimum liability of breaking the blocks.

In Fig. 5, a modified form of a tongue 25, and of a groove 26, is shown, in which the cooperating surfaces are formed as portions of a cylinder. This construction enables the blocks to be set up within relatively large limits of curvature while maintaining the tongue and grooves in interlocked arrangement.

While the preferred embodiment of the invention has been illustrated and described, it is to be understood that the invention may be embodied in other forms within the scope of the following claims.

Having thus described the invention, what is claimed is:—

1. A building block of the character specified, comprising an elongated body portion provided with an open elongated slot in the bottom wall thereof extended from the inner to the outer wall of the block and provided with beveled end walls converging toward the outer wall of said block.

2. A molded cementitious block for the purpose specified, comprising a curved elongated block having a tongue at one end and a groove on the other, and provided in its bottom wall with an elongated drainage slot extended through the body thereof, said slot being provided with beveled end walls for the purpose specified.

3. A molded cementitious block for the purpose specified, comprising a curved elongated block having a tongue at one end and a groove on the other, and provided in one of its longitudinal walls with an elongated drainage slot extended through the body thereof, said slot having its end walls tapering from the concave to the convex side wall thereof.

In testimony whereof, I have signed my name to this specification.

GILBERT STUDLEY, JR.