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M. WOHL

2,301,602

WATERPROOF BLOCK

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Fig. 1.

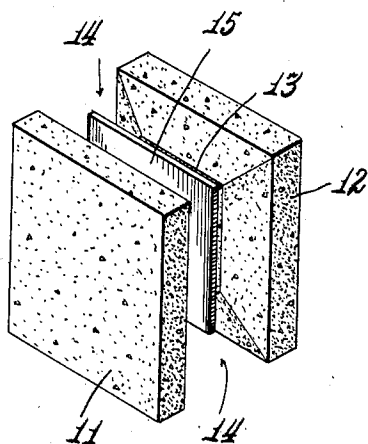


Fig. 2.

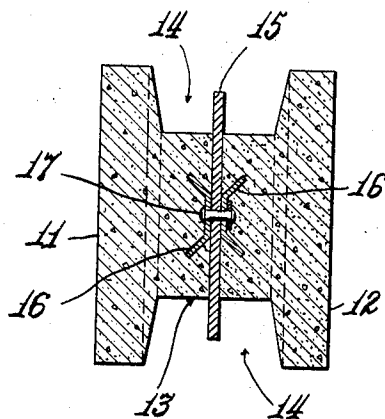
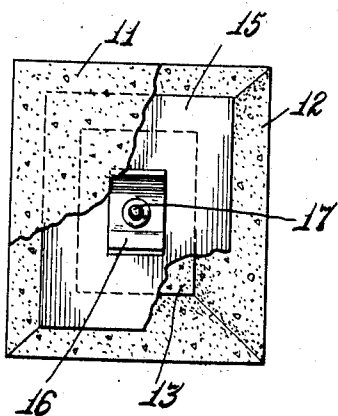


Fig. 3.



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WATERPROOF BLOCK

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1 Claim. (Cl. 72-44)

The invention relates to building units and more particularly to blocks of cement or like composition having an insert of insulation material embodying novel inexpensive means to firmly anchor said material in place.

The term "block" is generically used to include blocks, tiles, slabs and similar articles used in building.

An object of the invention is to provide an improved water-proof block or the like.

Another object is to provide a strong cast block of cement or like composition, having a comparatively thin layer or sheet of water-proof material dividing said block into two entirely independent sections firmly anchored and bonded to opposed faces of the material.

Another object is to provide an insulation member for a block of cement or like composition, with novel means arranged to prevent separation of said member from said block.

The foregoing and such other objects of the invention as will appear hereinafter as the description proceeds will be more readily understood from a perusal of the following description, in which reference is made to the accompanying drawing, wherein:

Fig. 1 is a perspective view of one embodiment of the improved block.

Fig. 2 is a transverse vertical sectional view of the block.

Fig. 3 is a front elevational view, showing portions progressively broken away to disclose the interior construction.

Although the block illustrated is embodied in a specific form and shape, it is to be understood that the invention may readily be incorporated in any block of any suitable or practical shape wherein it is necessary or desirable to provide and securely anchor a sheet of water-proof material therein to definitely prevent the passage of moisture from one face of the block to the other by seepage or capillary attraction.

As illustrated, the block, which may be composed of cement or like composition, preferably consists of front and rear walls 11 and 12 respectively, connected by a centrally located web 13. The web 13 preferably is spaced inwardly from the four sides of the block to provide a recess or channel 14 in the top, bottom and side walls as is frequently provided in blocks of known construction. A sheet of water-proof material 15 is embedded in the web 13, as best shown in Fig. 2, and preferably has its marginal edge portions extending outwardly in all directions into the

respective channels 14. Although any suitable water-proof material may be used it is preferred that it consist of a sheet of rubber, rubber composition or like material, and it should be understood at this time that said material may have its edges terminate substantially flush with the respective faces of the web 13. The structure illustrated is however preferred inasmuch as the extended margins of said insulation divide the channels into two parts and prevent moisture from moving by surface attraction across the edge of the insulation from one face portion of the web to the other.

Although the web 15 is relatively secure within the block due to its having been positioned in the mould prior to the pouring of the concrete, it is advantageous to provide means not only to more securely anchor said sheet but to securely anchor each section of the block to the sheet and to each other. To this end, at least one substantially V-shaped sheet-metal cleat 16 is arranged to each face of the sheet 15 and said cleats are jointly and permanently secured to said sheet and to each other preferably by a rivet 17. As an alternate construction, it is apparent that a bolt or bolts may be used.

The particular angular disposition of the end portions of the cleats 16 tends to prevent separation of the two sections of the block from the sheet and further prevents displacement or complete removal of said sheet without complete destruction of the block.

Although an exemplary embodiment of the invention has been illustrated in the accompanying drawing and described in detail in the foregoing specification, it is to be understood that the disclosure and description are suggestive and not by way of limitation and that the invention is to embrace a variety of modifications without departing from the scope of the appended claim.

I claim:

In an article of manufacture, a substantially X-shaped element consisting of two integrally connected members embedded one in each of two complementary bodies to prevent separation of said bodies, and a sheet of non-metallic moisture impervious material interposed between opposed faces of said bodies and integrally associated with said element, said joined bodies defining a block having a channel in all of its edges and the sheet material being of such size as to extend into the channels.

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