

May 29, 1928.

1,671,893

V. E. EASTERDAY, SR

BUILDING BLOCK

Filed Feb. 7, 1928

Fig. 1.

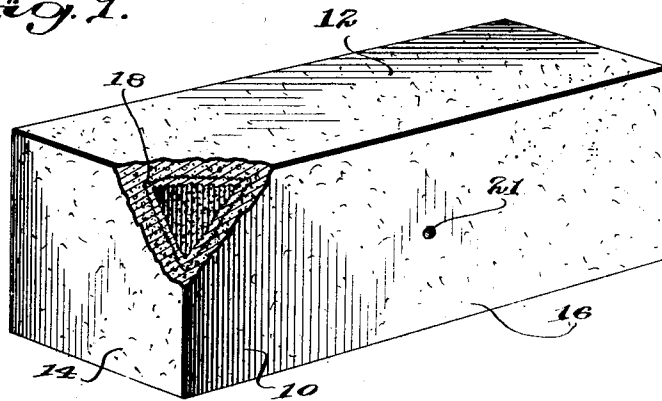
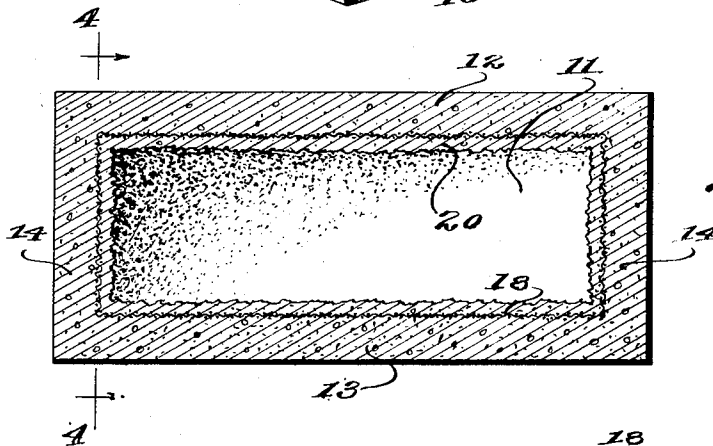


Fig. 2.

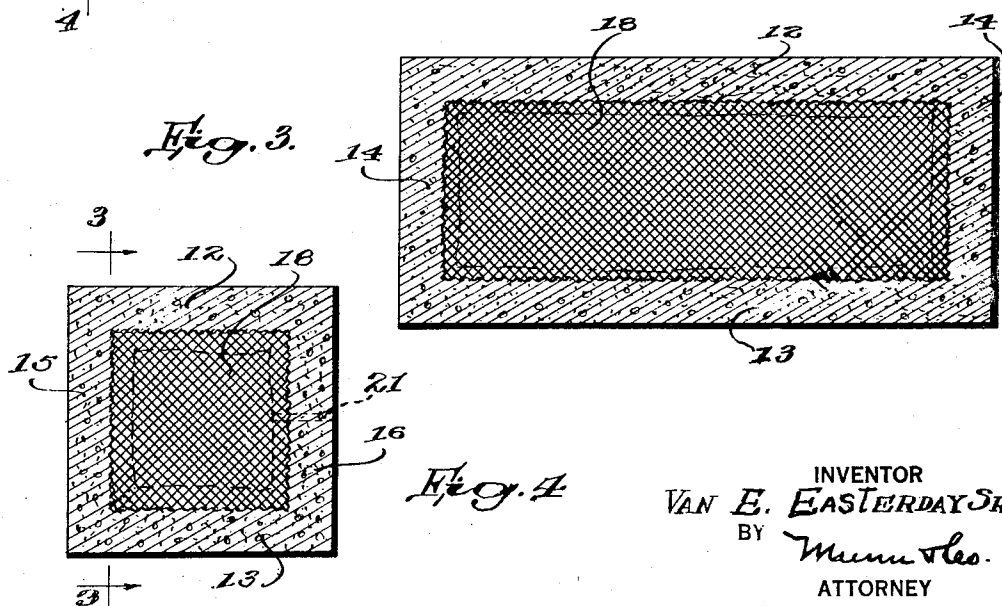


Fig. 3.

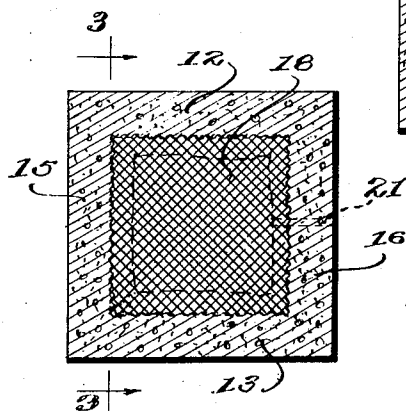


Fig. 4

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UNITED STATES PATENT OFFICE.

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BUILDING BLOCK.

Application filed February 7, 1928. Serial No. 252,553.

This invention relates to building blocks.

An object of the invention is the provision of a block formed of cementitious material embedded and in surrounding relation with a metallic reinforcing frame substantially in the shape of the block forming the finished product.

A further object of the invention is the provision of a block formed of a composition material and having an internal chamber and a reinforcing metal frame incorporated in the walls of the block, one of the walls having an opening for the admission of water for causing curing of the block.

This invention will be best understood from a consideration of the following detailed description; nevertheless it is to be understood that the invention is not confined to the disclosure, being susceptible of such changes and modifications which shall define no material departure from the salient features of the invention as expressed in the appended claim.

In the drawings:—

Figure 1 is a view in perspective of a block constructed in accordance with the principles of my invention,

Figure 2 is a longitudinal vertical section of the block,

Figure 3 is a vertical section taken along the line 3—3 of Figure 4,

Figure 4 is a vertical section taken along the line 4—4 of Figure 2.

Referring more particularly to the drawings 10 designates a block which is formed of some composition material, such as cement, and provided with an internal chamber 11 embraced by top and bottom walls respectively designated by the numerals 12 and 13, end walls 14, and side walls 15 and 16.

A reinforcing metal frame 18 which may be formed of lathes or wire screening is embedded in the cement or concrete adjacent to the inner faces of the walls. Thus, it

will be seen that the block has its walls reinforced throughout by a unitary structure formed of metal.

The form or metal cage is placed in the mold and the concrete or cement is tamped around the form with sufficient pressure to force the concrete or cement through the wire mesh or through the interstices between the lathes so that a portion as shown at 20 will project beyond the inner surface of the form while being connected as a unit with the walls. A sufficient thickness of the concrete or cement is tamped on the outer surface of the metal form to provide the proper thickness which may be desired for particular purposes.

One side wall as shown at 21 is provided with a passage through which water may be admitted for the purpose of curing the block after the same has been formed, and this water is admitted to the chamber and permitted to stay a predetermined length of time as may be required for curing the material forming the walls of the block.

By this construction it is seen that the block is not only reinforced throughout the entire extent of the walls thereof, but is provided with a chamber forming an air pocket.

I claim:—

A building block comprising a metal frame of box-like structure formed entirely of wire fabric, and a cementitious material impregnating the entire frame and located upon opposite faces of the frame to provide walls adjoined at the adjacent edges thereof and forming a unitary structure with the wire fabric, and providing an internal chamber, the walls of the frame being located adjacent the walls of the internal chamber.

Signed at Urbana, in the county of Champaign and State of Illinois, this 4th day of Feb. A. D. 1928.

VAN E. EASTERDAY, Sr.