E. V. ROUX.

BUILDING ELEMENT OR BLOCK.

APPLICATION FILED AUG. 24, 1921.

1,420,220. Patented June 20, 1922.

Fig. 1.

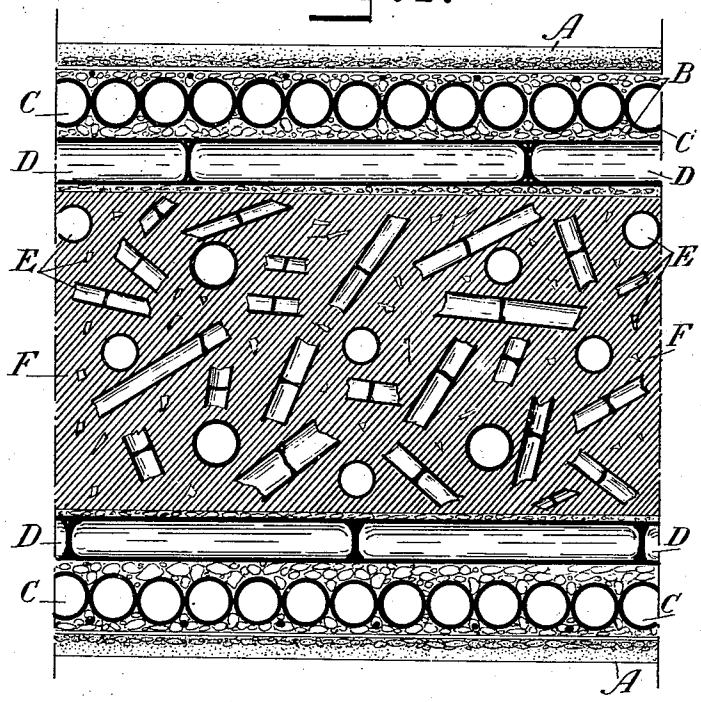
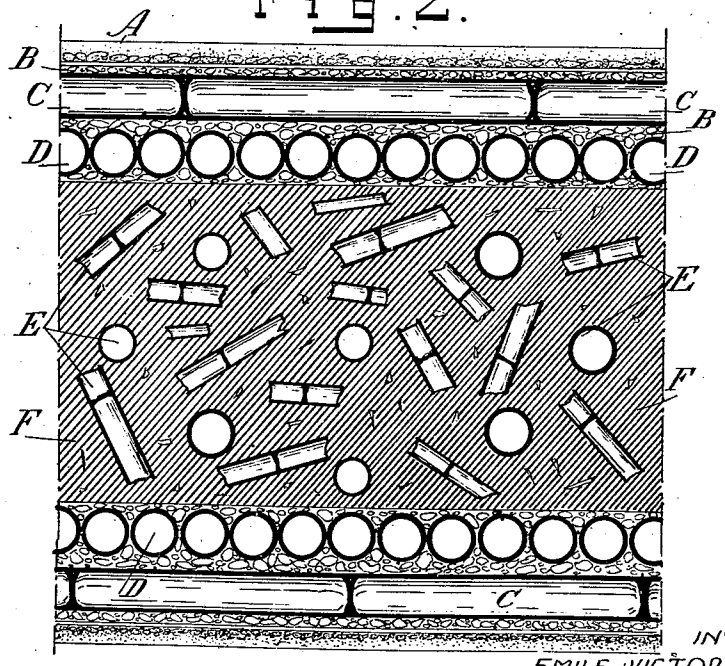


Fig. 2.



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UNITED STATES PATENT OFFICE.

EMILE VICTOR ROUX, OF MARSEILLE, FRANCE.

BUILDING ELEMENT OR BLOCK.

1,420,220. Specification of Letters Patent. Patented June 20, 1922.

Application filed August 24, 1921. Serial No. 494,835.

(GRANTED UNDER THE PROVISIONS OF THE ACT OF MARCH 3, 1921, 41 STAT. L., 1313.)

To all whom it may concern:

Be it known that I, EMILE VICTOR ROUX, a citizen of the Republic of France, residing at Marseille, in the Republic of France, have invented certain new and useful Improvements in Building Elements or Blocks (for which I have filed applications in France November 8, 1919, Patent No. 506-092, and in Great Britain March 4, 1920, Patent No. 161,797), of which the following is a specification.

This invention relates to improvements in building elements or blocks formed of tubular reeds, bamboo or the like, with or without a reinforcement of metal or vegetable fibres, and bound together by a binding agent.

According to this invention the tubular reeds are chopped into small pieces and distributed haphazard in the binding agent.

The application of the principle of tubular blocks for refrigerators is the rational use of the air chambers (whence the enormous importance of air chambers naturally closed by knots), and blocks of cork can thus be replaced by blocks of reed having a lower density, and being more fire-proof and more profitable than cork.

Figs. 1 and 2 show two sections, lateral and transverse respectively, of a building block formed of tubular reeds.

Such blocks are already known, but their disposition and the materials entering into their formation are not similar to those which will now be described and which are adapted more especially for the construction of the insulation walls of refrigerating chambers.

In accordance with the present invention, the block's composition is preferably:—

1. Two external layers A. A. formed of impermeable cement;

2. A layer of cement B. B. against the inside of each of these facings with metallic reinforcement;

3. Against the interior of each of the cement layers B. B. a layer or row of natural vegetable tubes or reeds C fitted vertically one to another and of another row of vegetable tubes or reeds D fitted horizontally one to another, these reeds being pressed and bound with twine or the like;

4. A central part or core formed of reeds or other similar vegetable substances E. E., cut or chopped and agglomerated by means of casein, these reeds or vegetable tubes forming air chambers closed at the ends by the binding agent.

What I claim is:

Blocks for use in building refrigerating chambers, comprising layers of reeds arranged crosswise and agglomerated by casein and, between such layers and forming the interior of the blocks, cut reeds also agglomerated with casein.

In testimony whereof I affix my signature in presence of two witnesses.

EMILE VICTOR ROUX.

Witnesses:
EUGÈNE DUCUFFORE,
ETIENNE ROMAN.