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W. B. FRENCH.
MEANS FOR REENFORCING REFRACTORY MATERIAL.
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Fig. 1.

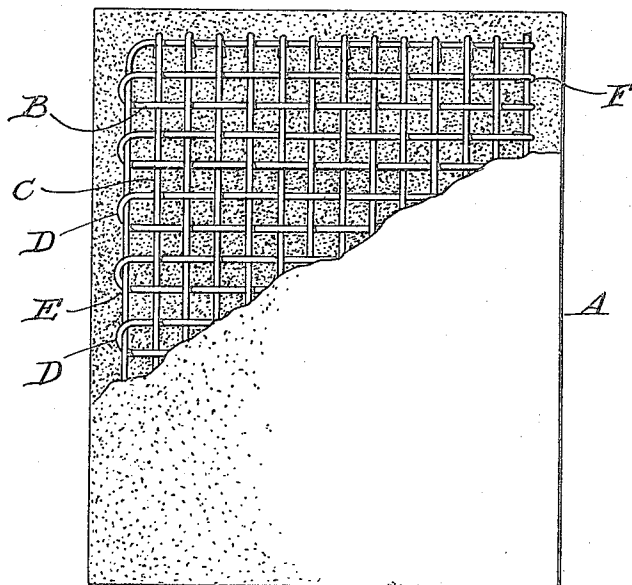


Fig. 2.

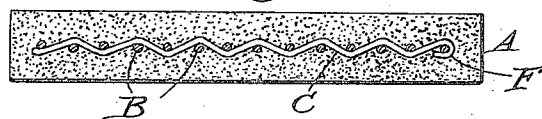
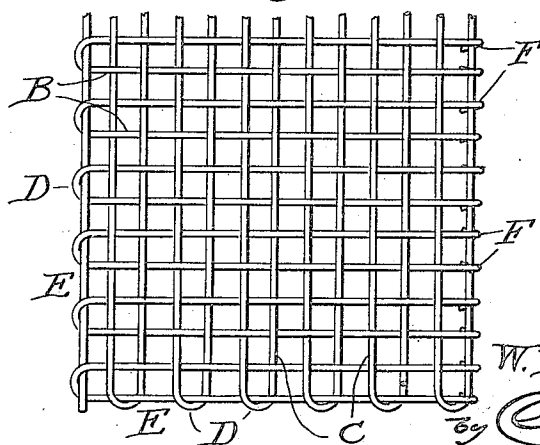


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM BRYANT FRENCH, OF GUTHRIE, KENTUCKY.

MEANS FOR REENFORCING REFRACTORY MATERIAL.

Application filed November 16, 1921. Serial No. 515,549.

To all whom it may concern:

Be it known that I, WILLIAM B. FRENCH, a resident of Guthrie, in the county of Todd and State of Kentucky, a citizen of the United States, have invented certain new and useful Improvements in Means for Reenforcing Refractory Material, of which the following is a specification.

My invention relates to improvements in reinforcing means for refractory material and the main object of my invention is the provision of means particularly adapted and desirable for use in tiles, building blocks, bricks, glass, and in fact any material of a refractory character with which my means could be employed.

Another object of my invention is the provision of reinforcing means which can be readily embedded and molded in the refractory material and which while providing the proper reinforce or rigidity, will permit of a certain movement due to contraction and expansion, such action not in any way working damage or injury to the material.

Another object of my invention is the provision of a reenforcing means of the character and for the purpose stated which will be easy to apply, inexpensive to manufacture strong and durable, and in every particular thoroughly efficient and practical.

To attain the desired objects, my invention consists in the combination with a block or strip of refractory material of a grid or frame embedded in said material and composed of interlocking loop or bail shaped members, and further in certain details of construction and combination of parts substantially as shown, described and particularly defined by the claims.

In order that the construction in detail of my invention may be fully understood and its many advantages be fully appreciated, I invite attention to the accompanying drawings, in which:

Figure 1 is a view partly in plan and partly broken away of a piece of refractory material with my reenforcing means embedded therein.

Fig. 2 is a transverse sectional view, and

Fig. 3 is a plan view of the reenforcing frame or grid.

The reenforcing means may be used in any character of material where it would perform its function, and in this instance a rectangular block A, of refractory material is shown in which is centrally embedded my reinforcing means, consisting of interwoven loop-shaped members B and C formed with bends D at their intersecting points E, the ends of such loop members being formed with hooks F which serve to retain the members in proper relation, while at the same time permitting a certain accommodating movement to said loop-shaped members.

From this construction, it will be observed that I provide a frame or grid composed of interlocking loop-shaped members which form as a whole a frame composed of small rectangular open portions and provide a general rectangular form of structure, which is embedded in the material and provides a perfect reenforcing means which will accommodate any expansion or contraction due to weather conditions, and that such a structure will prove thoroughly efficient and practical for many purposes.

I claim:

1. A reenforcing means for refractory material, consisting of a metal frame or grid composed of similar looped-shaped members interlocking at their points of intersection and disposed to provide a rectangular shaped structure, said loop-shaped members being intertwined to form a flat grid and having their free ends formed with hooks to secure said loop-shaped members.

2. A reenforcing means for refractory material, consisting of a metal frame or grid composed of similar looped-shaped members interlocking at their points of intersection and disposed to provide a rectangular shaped structure of practically bat form with pockets to receive the material, the free end of said members being formed with hooks to engage the companion members.

In testimony whereof I hereunto affix my signature.

WILLIAM ^{his} X BRYANT FRENCH.
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