June 26, 1928. 1,674,714

H. S. BRUCKSHAW

REENFORCEMENT FOR SAFES, STRONG ROOMS, AND THE LIKE

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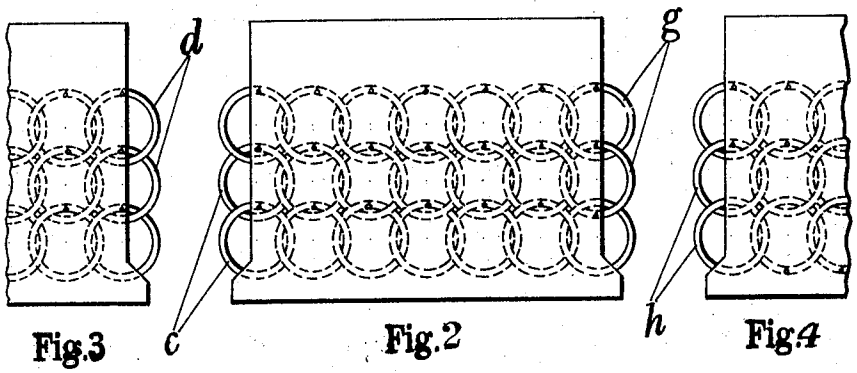


Fig.3 Fig.2 Fig.4

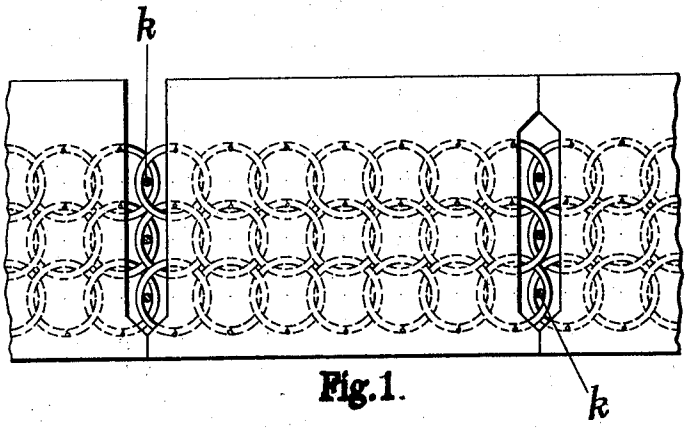


Fig.1.

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UNITED STATES PATENT OFFICE.

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REENFORCEMENT FOR SAFES, STRONG ROOMS, AND THE LIKE.

Application filed January 27, 1927, Serial No. 164,074, and in Great Britain March 17, 1926.

This invention relates to reenforcements for safes, strong rooms and the like of the type such as described in my prior U. S. specification No. 1,610,996 in which mattresses of interwoven coils are embedded in concrete.

The object of my present invention is to provide in an effective manner for the jointing together of mattresses of reenforcement after the same have been embedded in concrete.

Figure 1 is a plan showing the manner in which prepared or what may be termed pre-cast blocks of concrete or the like with the reenforcing mattresses embedded therein, are united together and the building up of the required structure in accordance with this invention, whilst Figures 2, 3 and 4 show separate blocks before unison.

In the assembling of pre-cast or prepared blocks as shown at Figure 1, the exposed or projecting portions *c*, *d* and *g*, *h*, of the mattress coils in the respective blocks illustrated at Figures 2, 3 and 4, are intermeshed as at Figure 1, and a uniting rod *k* inserted as shown. Such united portions are then encased with concrete, cement or the like. For roof structures where the concreting of the exposed portions of the coils can be effected from the top the ends of the adjacent blocks are shaped as shown at the left hand side of Figure 1, but for wall structures where the concreting is effected from the sides, the ends of the blocks are shaped as shown at the right hand side of said figure.

What I claim is:—

1. In reenforcements of the type aforesaid for safes, strong rooms and the like, the combination comprising a mass of concrete having embedded therein a mattress with interwoven right hand coils extending through and projecting from said mass, a further mass of concrete in alignment and abutment with the aforesaid mass and having embedded therein a mattress with interwoven left hand coils, said coils having projecting ends overlapping the adjacent projecting ends of the aforesaid right hand coils, and means for uniting such overlapping coils, as set forth.

2. In reenforcements of the type aforesaid for safes, strong rooms and the like the combination comprising a mass of concrete having embedded therein a mattress with interwoven right hand coils extending through and projecting from such mass, a further mass of concrete in alignment with the aforesaid mass and having embedded therein a mattress with interwoven left hand coils, said coils having projecting ends overlapping the adjacent projecting ends of the said right hand coils, end projections from the said masses, said projections abutting together and means for uniting said overlapping ends, as set forth.

3. In reenforcements of the type aforesaid for safes, strong rooms and the like, the combination comprising a mass of concrete having embedded therein a mattress with interwoven right hand coils extending through and projecting from such mass, a further mass of concrete in alignment with the aforesaid mass and having embedded therein a mattress with interwoven left hand coils, said coils having projecting ends overlapping the adjacent projecting ends of the said right hand coils, end projections from the said masses, said projections abutting together and rods threaded through the said overlapping parts of the mattresses and uniting same, as set forth.

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

HERBERT STANLEY BRUCKSHAW.