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W. C. LYON.

MEANS FOR REINFORCING COMPOSITION CONSTRUCTION OF CEILINGS, WALLS, &c.

APPLICATION FILED FEB. 27, 1907.

Fig. 1.

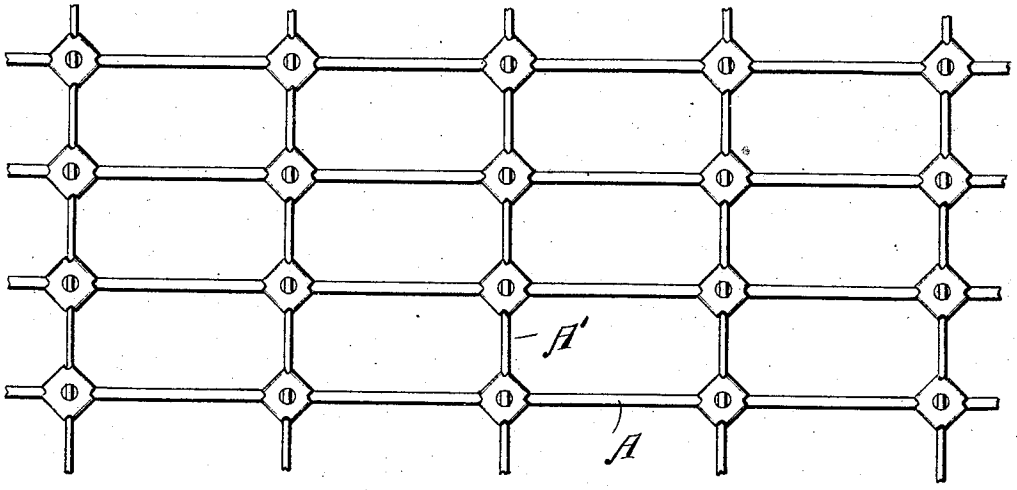


Fig. 2.

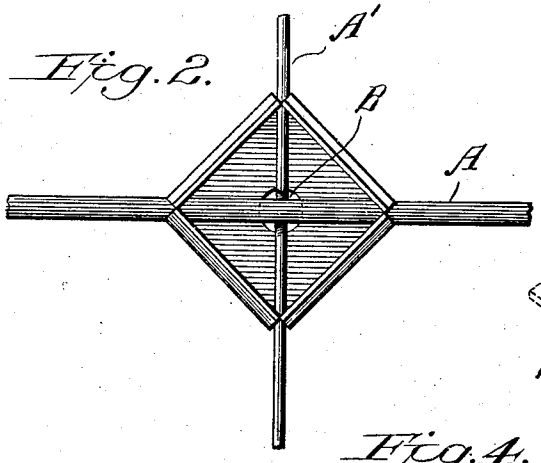


Fig. 3.

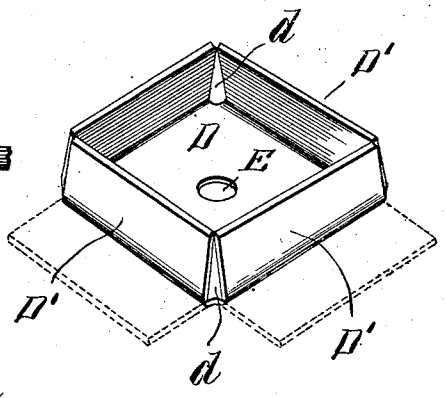
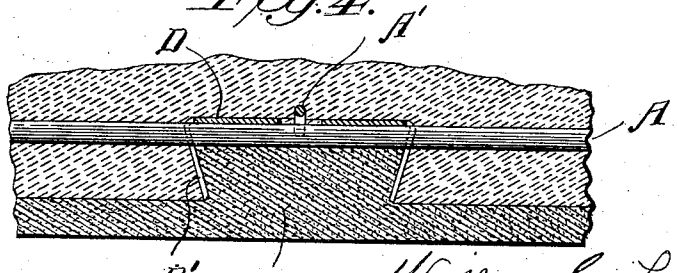


Fig. 4.



Witnesses

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MEANS FOR REINFORCING COMPOSITION CONSTRUCTION OF CEILINGS, WALLS, &c.

No. 874,413. Specification of Letters Patent. Patented Dec. 24, 1907.

Application filed February 27, 1907. Serial No. 359,573.

To all whom it may concern:

Be it known that I, WALLACE C. LYON, a citizen of the United States, residing at Hyattsville, in the county of Prince George and State of Maryland, have invented certain new and useful Improvements in Means for Reinforcing Composition Construction of Ceilings, Walls, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use same, reference being had to the accompanying drawings and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in the reinforcement of concrete construction, and especially in the provision of means for reinforcing concrete blocks designed for use in the construction of walls or ceilings of buildings, and it relates more particularly to the provision of means, integral with and forming a part of the reinforcing means, for keying to and supporting upon the surface of the reinforced construction, additional material employed in producing a finished surface of the walls or ceilings of the building.

To these ends and to such others as the invention may pertain, the same consists in the peculiar construction and in the novel combination, arrangement and adaptation of parts, all as will be more fully hereinafter described, shown in the accompanying drawings and then specifically defined in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which drawings:—

Figure 1 is a plan view showing a series of intersecting rods held together by connecting members which are adapted to receive a composition material, whereby the same may be securely anchored to the reinforcing rods. Fig. 2 is a detail plan view of one of the members, the edges of which are adapted to be bent at inclinations to form means for retaining the composition material between the same. Fig. 3 is an enlarged detail perspective view of one of the retaining members, and Fig. 4 is a sectional view through one of the members shown in Figs. 2 and 3, illustrating the device as applied to a ceiling and showing the additional material employed to produce a finished surface.

Reference now being had to the details of the drawings by letter, A and A′ designate series of rods or bars which may be of any shape and each rod A′ has a loop B formed therein adapted to receive a rod A. D designates a connecting member having wings D′ on each of its four edges which are adapted to be folded in the manner shown in the drawings, with open spaces *d* at the corners thereof for the reception of the intersecting rods A and A′ which pass therethrough. Said member D has a central aperture E through which a loop B of the rods or bars A′ is adapted to pass, whereby the rods or bars A′ may be held from longitudinal movements. It will be noted that the wings D′ of said plate are inwardly inclined, as clearly seen in Fig. 4 of the drawings, for the purpose of retaining the additional material H employed to produce a finished surface.

In forming the block, slab or beam of concrete or other plastic material, in the construction of which my reinforcing means is employed, the framework which I have shown and described is placed in position within the mold used in forming the block. The width of the inwardly converging sides D′ of the members D upon the bottom of the mold serve to retain the frame when embedded within the block at a uniform, predetermined distance from the surface of the block, slab or beam and it will at once be noted that these inclined sides D′ will, when the block is completed, provide a series of dove-tailed receptacles, distributed at regularly spaced intervals in the face of the block, and it will be at once noted that these undercut recesses or spaces will, when plaster or other material is applied to the face of the block, in providing the same with a finished surface in the walls or ceilings of buildings, be filled with the surfacing material; thus keying the material to the block.

Having thus described my invention, what I claim to be new and desire to secure by Letters Patent is:—

1. The combination of a reinforcement of a concrete building block, slab or beam and an anchoring means for ceilings, walls, etc.,

comprising two series of intersecting rods, and junction members, the corners of which are cut away, the remaining portions of the edges being bent to form wings between which said rods pass and by which said rods are held together, said wings being bent at such an angle to the body of the member as to form an undercut or dovetailed receptacle for the reception of an additional material in applying a finishing surface to said concrete building block, slab or beam, as set forth.

2. A reinforcing and anchoring means for ceilings, etc., comprising two series of intersecting rods, loops formed in one of said series of rods, members each having an aperture adapted to receive one of said loops, the corners of the members being cut away and forming wings which are adapted to be bent to form an inclosure for the reception of a material employed in applying a finishing surface, said wings having openings at the ends thereof for the reception of said intersecting rods, as set forth.

3. A reinforcing and anchoring means for ceilings, etc., comprising two series of intersecting rods, loops formed in one of said series of rods, members each having an aperture adapted to receive one of said loops, the corners of the members being cut away and forming wings which are bent over one of the faces of the member at inclinations with openings intermediate the ends thereof for the reception of said intersecting rods, as set forth.

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

WALLACE C. LYON.

Witnesses:

FRANKLIN H. HOUGH,

A. L. HOUGH.