M. MOORE.

CONCRETE BUILDING SLAB OR BLOCK.

APPLICATION FILED MAY 31, 1916.

1,236,387.

Patented Aug. 7, 1917.

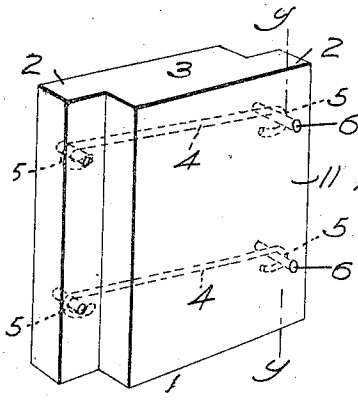


FIG. 1.

FIG. 2.

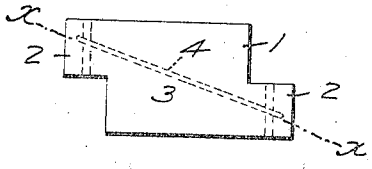


FIG. 3.

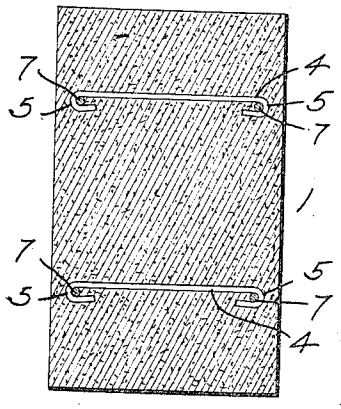


FIG. 4.

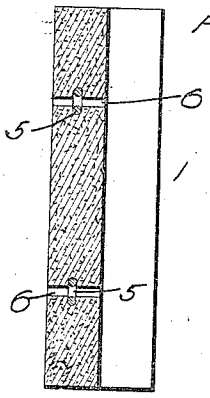


FIG. 5.

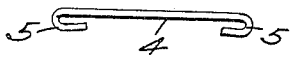
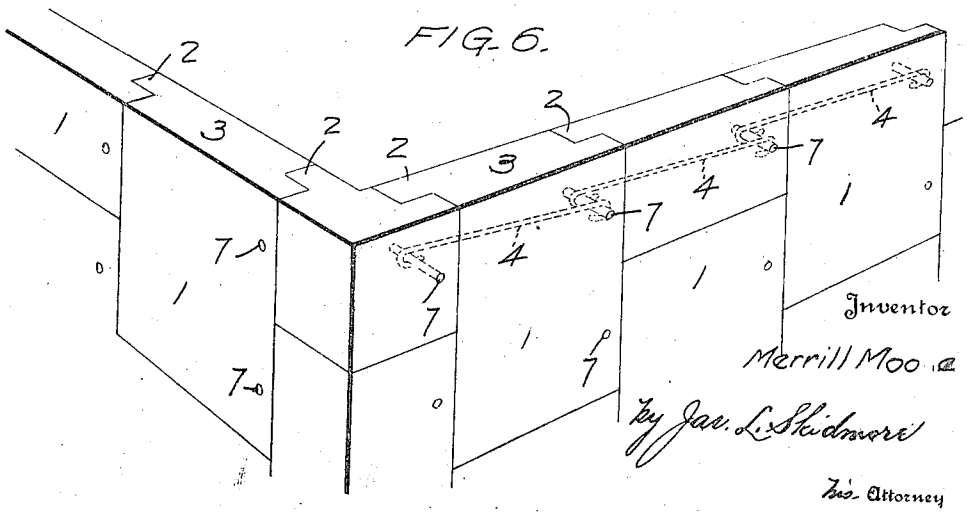


FIG. 6.



Inventor

Merrill Moore

by Jas. L. Skidmore

His Attorney

UNITED STATES PATENT OFFICE.

MERRILL MOORE, OF CRESTON, IOWA

CONCRETE BUILDING SLAB OR BLOCK.

1,236,387. Specification of Letters Patent. Patented Aug. 7, 1917.

Application filed May 31, 1916. Serial No. 100,734.

To all whom it may concern:

Be it known that I, MERRILL MOORE, a citizen of the United States, residing at Creston, in the county of Union and State of Iowa, have invented certain new and useful Improvements in Concrete Building Slabs or Blocks, of which the following is a specification.

This invention relates to a concrete slab or block to be used in the construction of walls for buildings.

The main object of my invention is to so construct a slab or block, that it may be easily, readily and securely fastened to the next adjoining slab during the process of constructing the walls of a building.

Another object of the invention is to provide a building slab or block having a plurality of metal reinforcing rods or bars embedded therein in an inclined position, each rod or bar being provided with an eye or loop at each end thereof.

A further object of this invention is to so construct a building slab or block, that it will be provided, at each side thereof and running lengthwise of the slab, with a lateral extension of about one half the thickness of the body portion of the slab, and having embedded therein a plurality of reinforcing rods arranged in an inclined position across the slab, the ends of each rod terminating within the lateral extensions of the slab, and a hole formed through each extended portion of the slab at a point about one-fourth the distance from each end thereof, adapted to receive a fastening or tying bolt or pin used for securing the slabs together.

The foregoing and such other objects as may appear from the ensuing description are attained by the novel features of construction, hereinafter more fully described, illustrated in the accompanying drawings, and particularly pointed out in the claim appended hereto, it being understood that slight changes in the form, proportions, and minor details of the construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings it will be seen that:

Figure 1, is a perspective view of my improved concrete building slab or block showing by dotted lines the metal reinforcing rods embedded therein.

Fig. 2, is an end view of the same.

Fig. 3, is a transverse sectional view taken on the line x—x, Fig. 2, showing the metal reinforcing rods in full lines and the securing pins in cross-section.

Fig. 4, is a longitudinal sectional view taken on the line y—y, Fig. 1.

Fig. 5, is a plan view showing one of the metal reinforcing rods removed from the slab or block, and

Fig. 6, is a perspective view showing a portion of a building wall constructed by the use of my improved slab or block, and showing reinforcing rods and fastening bolts or pins in dotted lines.

In carrying out the invention as illustrated, and which shows a preferred construction, the numeral 1 designates my improved slab or block molded of concrete or other suitable and desirable material, provided at each side thereof with a lateral extension 2 of about one-half the thickness of the body portion 3 of said slab, and embedded crosswise within each slab are two metal reinforcing rods 4, each rod being positioned at an incline across the slab and provided with an integral eye or loop 5, at each end thereof, and each end terminating within a lateral extension 2, at a point about one-fourth the distance from each end of the block, at which point a hole 6 is formed in the block extending therethrough and through the eye or loop of each of the reinforcing rods, said holes 6, being adapted to receive fastening bolts or pins which are passed through the holes in one slab, through the eye or loop of the reinforcing rods, and into the registering holes of the next adjacent slab connected thereto, so as to securely fasten and tie the building slabs or blocks together in the construction of walls for buildings.

It will be perceived that the rods 4, not only serve as a reinforcing medium for the concrete slab or building block, but the eye or loop 5 formed at each end of each rod, constitutes a strong and solid contact with the fastening bolts or pins 7, and the inclined position of each rod 4 crosswise of the slab permits each end of a rod to terminate within one of the lateral extensions and there receive a fastening pin for the purpose hereinbefore described. Further, it will be seen that the eye or loop 5 at each end of the solid reinforcing rods forms a solid metal bearing surface for each of the

metal fastening pins or bolts 7, thereby causing the lateral strains to which the fastening pins are subjected to be taken up and borne by the said solid metal bearing surfaces thus relieving the poured concrete material from which the slabs are formed from the necessary lateral strains which will occur in the construction of buildings from slabs or blocks of this type or formation.

It will be understood that this slab or building block may be utilized in the construction of either square or circular walls for buildings.

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

As a new article of manufacture a concrete building slab having a lateral extension at each side thereof, one projecting from its outer face and the other from its inner face, and having a plurality of solid reinforcing rods embedded crosswise within the slab in an inclined position, each rod being provided with an integral eye or loop at each end thereof terminating within each of said lateral extensions at the middle portion thereof and forming metal bearing surfaces, each of said extensions having a plurality of holes formed therethrough and through each of said eyes or loops at a point about one-fourth the distance from each end of the slab, and a plurality of fastening pins adapted to rest in contact with said metal bearing surfaces and to pass through the openings in said extensions and secure the overlapping extensions of the adjacent slabs together.

MERRILL MOORE.