June 2, 1925. 1,539,988

O. S. BOWMAN

FLOOR CONSTRUCTION

Filed July 28, 1924

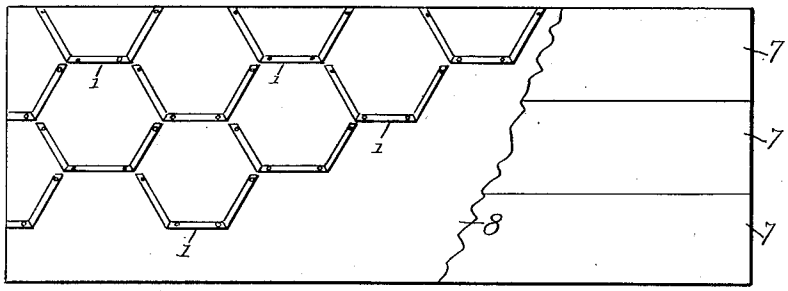


FIG. 7

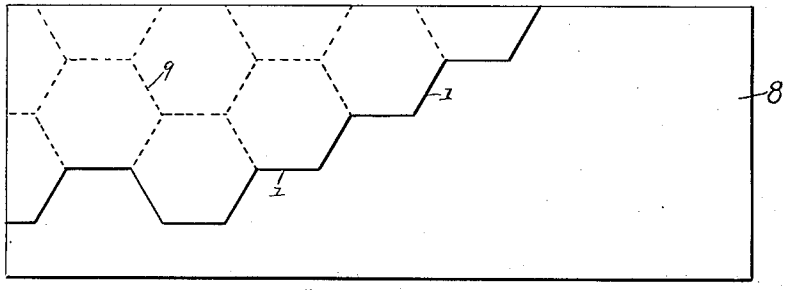


FIG. 8

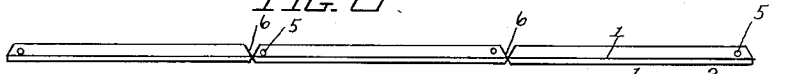


FIG. 1

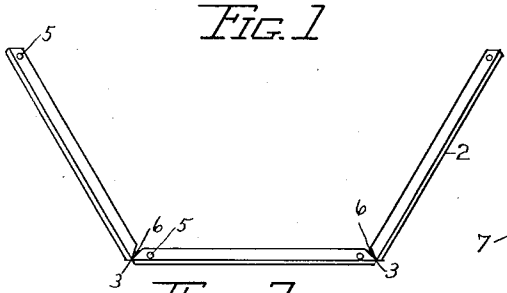


FIG. 2

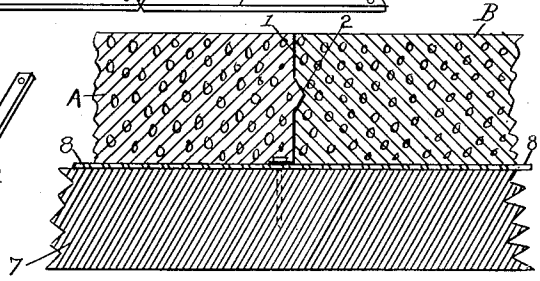


FIG. 6

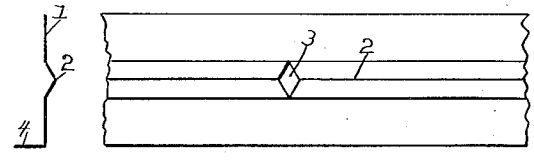


FIG. 3

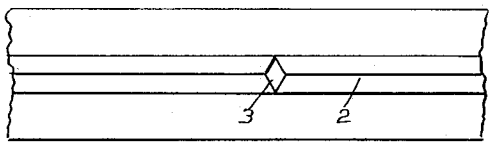


FIG. 4

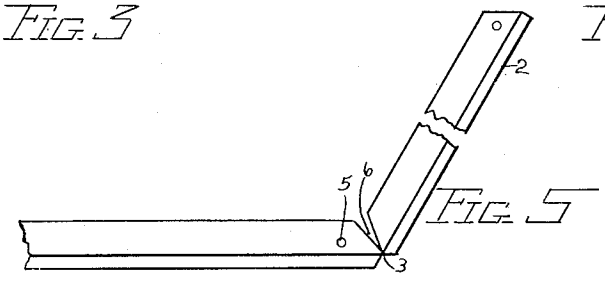


FIG. 5

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UNITED STATES PATENT OFFICE.

OLIVER S. BOWMAN, OF COLORADO SPRINGS, COLORADO.

FLOOR CONSTRUCTION.

Application filed July 28, 1924. Serial No. 728,709.

To all whom it may concern:

Be it known that I, OLIVER S. BOWMAN, a citizen of the United States, and a resident of Colorado Springs, in the county of El Paso and State of Colorado, have invented a new and useful Floor Construction, of which the following is a specification.

My invention relates to floors and my object is to provide means whereby floor blocks are molded, flexibly anchored together and rigidly anchored to a base. Other objects will appear as the description progresses.

For illustrative purposes I have shown an adaptation for molding hexagonal blocks, but I do not confine myself to this particular shape and wish it understood that any rectangular or polygonal blocks may be molded by my components.

The subject matter of this application has been described in my application No. 686,443, and the specific sheet metal angle claimed therein; therefore I am claiming the combination in this application.

Fig. 1 represents a plan view of the sheet metal angle before bending horizontally; Fig. 2, a plan view of said angle after being bent into a component of a hexagonal mold; Fig. 3, an end elevation of the angle, drawn to an enlarged scale; Fig. 4, fragmentary elevations of the angle before bending; Fig. 5, a fragmentary plan view of sheet metal angle after being bent, drawn to enlarged scale; Fig. 6, a fragmentary sectional elevation, showing how the blocks are anchored by the corrugations; Fig. 7, a plan view showing the components secured to the base, drawn to a reduced scale, and Fig. 8, a plan view of the surface of the floor.

Sheet metal angles 1 having longitudinal corrugations 2, with holes 3 therein, in their vertical legs and perforations 5 and notches 6 in their horizontal legs, are bent as shown in Fig. 2 and nailed or otherwise secured to a base as shown in Fig. 7; said base comprising boards 7 supported by joists and covered with tar paper 8 or other water proof material. Concrete or other composition is deposited in the molds thus formed, and leveled slightly above the tops of said angles. The contraction incident to "setting" results in cracks which uniformly follow the tops of the sheet metal angles 1 (as shown by the dotted lines 9 in Fig. 8) thus completely separating the blocks. (If desired, the cracks may be filled with paint or other water proof material, and thereby sealed against the passage of water.) As indicated in Fig. 6, the sheet metal angle 1, by means of corrugations 2, molds a rib on block A and a groove in block B, thereby flexibly anchoring each block to every adjacent block and rigidly anchoring all of the blocks to the base.

I claim:

1. A floor of the class described comprising a flexible wood base; water proof material, as tar paper, disposed on said base; sheet metal angles, having notches in their horizontal legs and longitudinal corrugations with holes therein in their vertical legs, bent at said notches and holes, disposed on said water proof material to form polygonal molds, and fixed on said flexible base; and concrete disposed in said molds; for the purposes set forth.

2. A floor of the class described, comprising a flexible wood base; water proof material disposed on said wood base; sheet metal angles bent and disposed on said water proof material to form polygonal molds, and fixed to said flexible base; and concrete disposed in said molds for the purposes set forth.

3. A flexible hard surface floor construction of the class described, comprising joists; boards disposed on said joists; water-proof material disposed on said boards; sheet metal angles, having notches in their horizontal legs and longitudinal corrugations with holes therein, in their vertical legs, bent at said notches and holes to form polygonal molds, disposed on said waterproof material and secured to said boards, and concrete disposed in said molds and leveled even with the tops thereof; for the purposes set forth.

OLIVER S. BOWMAN.