No. 661,336. Patented Nov. 6, 1900.

G. W. DYARMAN.

PAVING OR FLOORING CONSTRUCTION.

(Application filed Mar. 19, 1900.

(No Model.)

Fig. 1

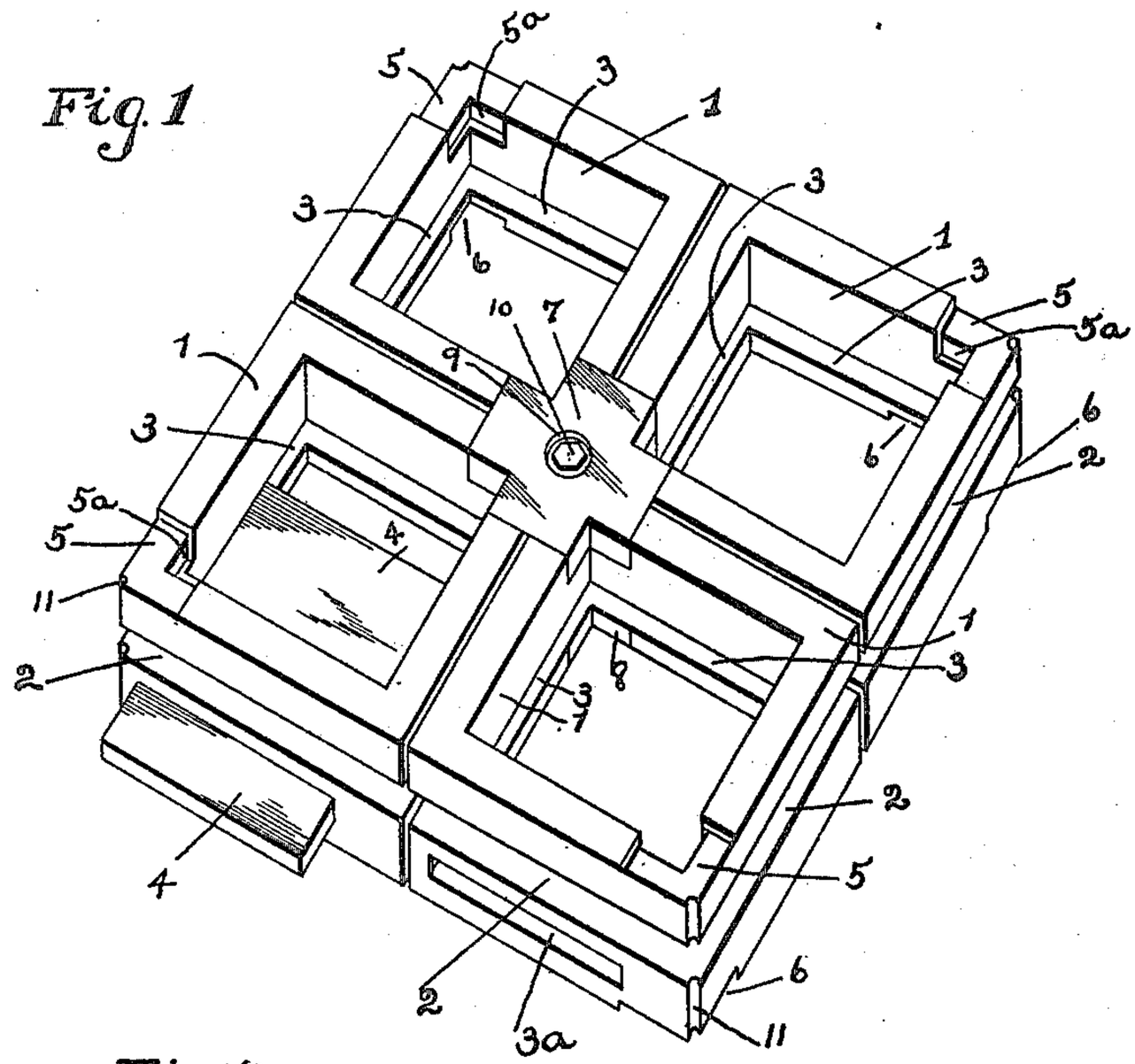


Fig. 2

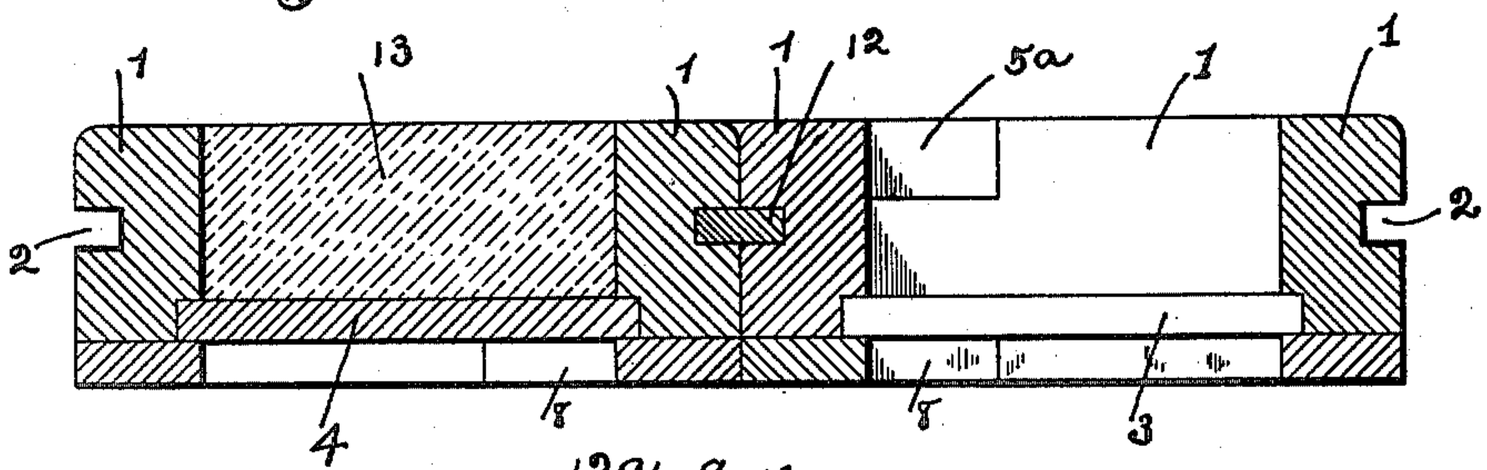
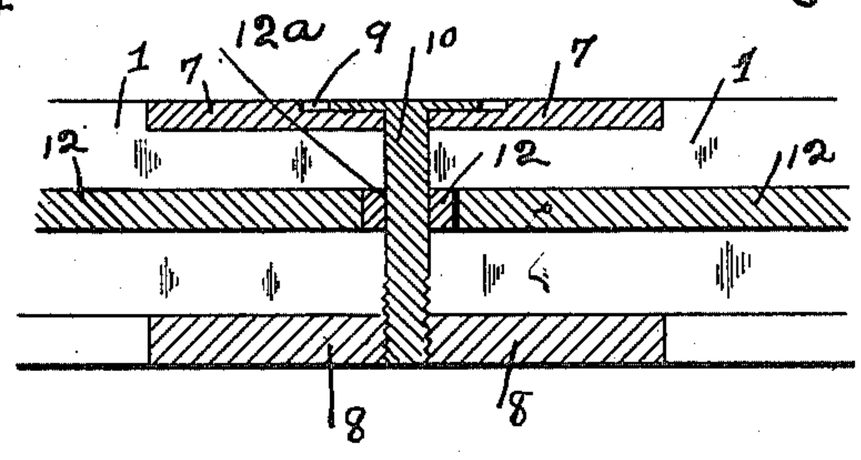


Fig. 3



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PAVING OR FLOORING CONSTRUCTION.

SPECIFICATION forming part of Letters Patent No. 661,336, dated November 6, 1900.

Application filed March 19, 1900. Serial No. 9,143. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. DYARMAN, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Paving or Flooring Construction, of which the following is a specification.

My invention relates to pavement construction; and the objects of my invention are to provide an improved paving construction for streets, walks, hearths, &c., of superior construction and arrangement of parts, to admit of the construction of such pavement in a simple and exceedingly-durable form, to provide a paving-framework which may be made to contain any desired form of paving material or tiling, to produce said framework in such sectional construction as to permit of the sections thereof being readily detached or connected, as desired, and to produce other improvements with reference to the details of construction which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective, showing four sections of my improved paving-framework united and showing, for the sake of clearness in illustration, the bottom plates or floors of the sections, with one exception, removed. Fig. 2 is a transverse section through two of the united frame-sections shown in Fig. 1, and Fig. 3 is a vertical section taken at the junction of the sections shown in said Fig. 1.

Similar numerals refer to similar parts throughout the several views.

In producing my improved pavement-frame I employ the desired number of square frame-sections 1. As indicated in the drawings, each of these sections 1 is provided at about the center of its height and on each of its sides with a keyway or channel 2, these keyways being continuous about the frame-section and parallel with the plane of the upper and lower sides of said section. In the lower portion of the inner wall of each side of each of the frame-sections 1 I provide a horizontal recess 3, the latter being parallel with the plane of the bottom of the section, one of these recesses, as indicated at 3^a, leading through one side of said frame in the form of a drawer-opening, as shown, and into this opening is adapted to be inserted a bottom plate or floor-piece 4, the edge portions of the latter resting when inserted within the internal channels or recesses 3. In constructing each of the frames 1 I recess or cut away the upper sides of two diagonally-opposite corners thereof, resulting in the corner depressions, which are indicated at 5. These recesses 5 are, as indicated at 5^a, continued downward a short distance on the inner side of each of the adjoining side pieces of the frame. As indicated at 6, on the under side of each of the frames 1 at those corners which are opposite the recesses 5 I produce corresponding depressions or recesses.

The frames constructed as above described are adapted to be united, as indicated in Fig. 1 of the drawings, by bringing the recessed corners of four of the frames together and filling said recesses with the channel-like arms of a corner-plate 7, having substantially the form of a Greek cross, the top and vertical sides of said plate and its arms being thus brought flush with the tops and vertical inner sides of the frames. The under-side depressions are likewise filled by a horizontal bottom plate 8, which is provided with a central threaded opening. In constructing the plate 7 I form a central depression therein, such as is indicated at 9, and said central depressed portion being provided with a pinhole through which is adapted to pass a uniting bolt or pin 10, the lower threaded end of the latter being made to engage the threaded opening of the bottom plate 8. In order to form a bolt-opening at the junction of the corners of the frames, I provide each of the recessed corners of each of said frames with a vertical groove 11, these grooves when united serving to form a complete bolt-hole. The frame-sections 1 are further united through the medium of key-bars 12, which may be of desirable lengths and which are adapted to be made to fit, as shown in Fig. 2, within the external recesses 2 of adjoining frames. That key-bar which intersects the bolt 10 may be sufficiently long to engage the inner sides of four of the frames 1, an opening 12^a being formed therein to receive said bolt.

In utilizing my invention for the purpose of paving or otherwise it is obvious that the

frames 1 may be formed of wood or other desirable material and that each of said frames may be filled, as shown at 13 in Fig. 2, with any desirable material, such as blocks of marble, concrete, tiling, &c.

While I have referred to my invention as being an improvement in paving construction, it is obvious that the same will be equally applicable for use in constructing flooring or ornamental side walls and that the outer faces of the frames may be suitably covered or ornamented to assist in producing an attractive as well as a substantial paving or flooring surface.

It is obvious that a pavement or floor construction of the character herein shown and described may be provided without other foundations than those provided by the frames and their bottom plates 4, and that the sections forming the pavement or floor body may be readily detached and replaced when desired.

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

A paving construction comprising separately-formed frames 1 having keyways in their outer sides and internal ways or grooves 3, bottom plates adapted to slide in said internal ways, key-bars adapted to connect said frames as described and upper and lower bolt-connected clamping-plates adapted to unite the group of said frames at their corners, substantially as specified.

GEORGE W. DYARMAN.

In presence of—
EDWARD M. TAYLOR,
C. C. SHEPHERD.