

I. Marsh, Jr.

Concrete Pavement.

N^o 78,601.

Patented Jun. 2, 1868.

Fig 2

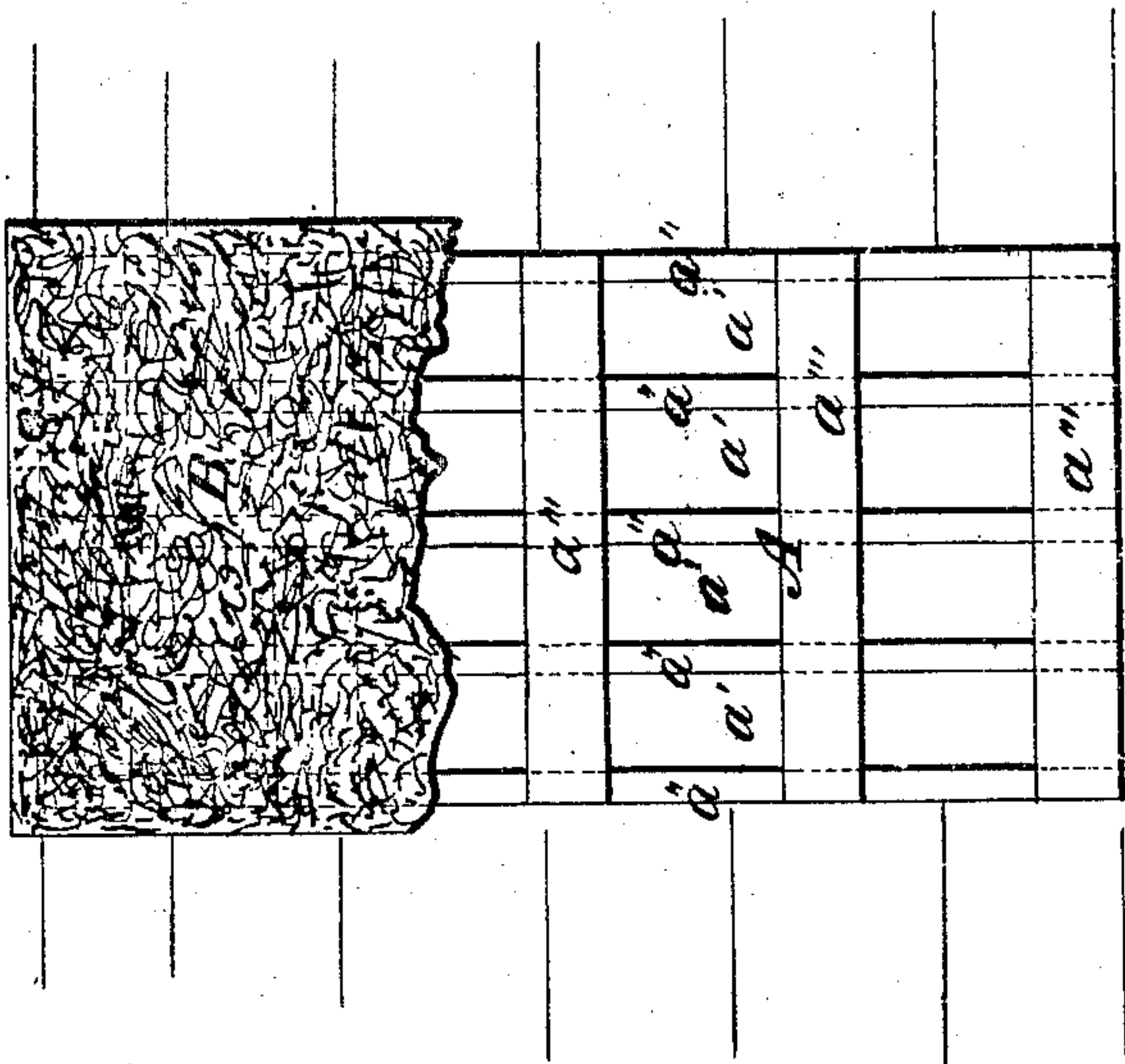


Fig 3

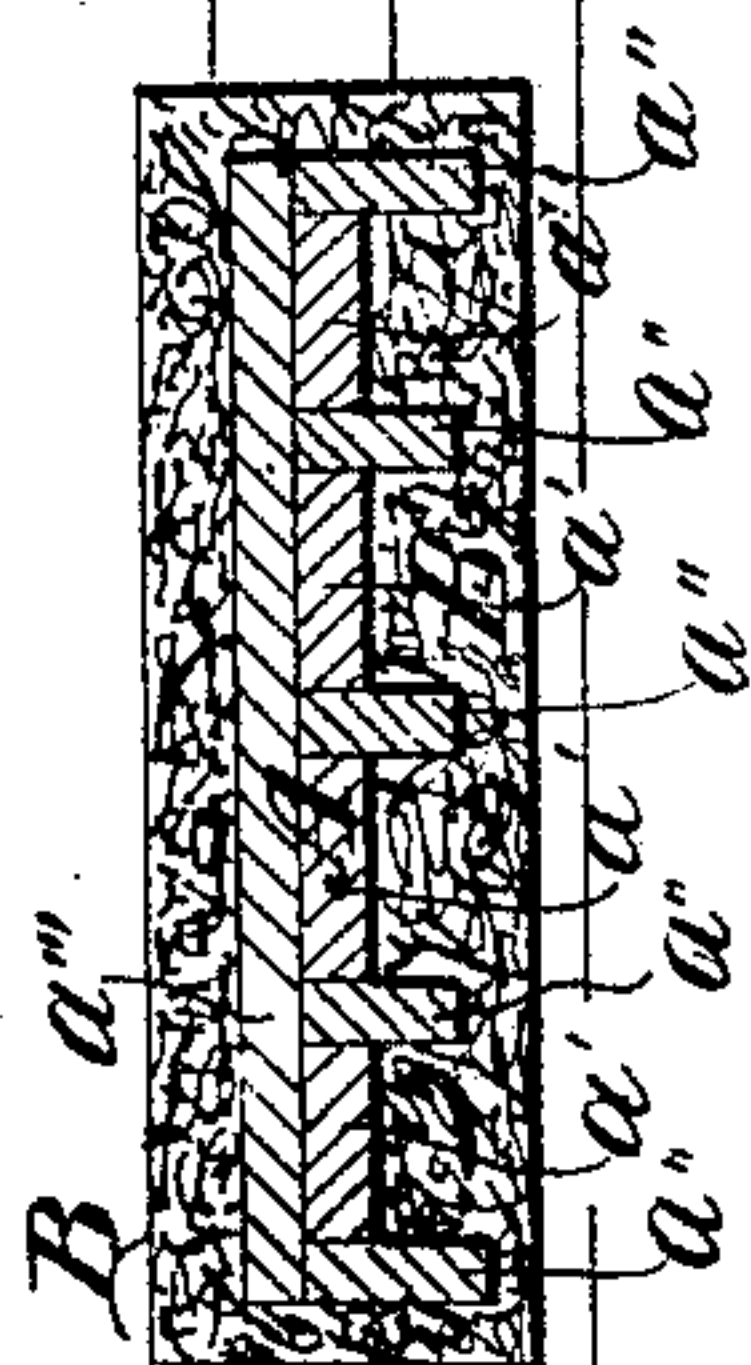


Fig 4.

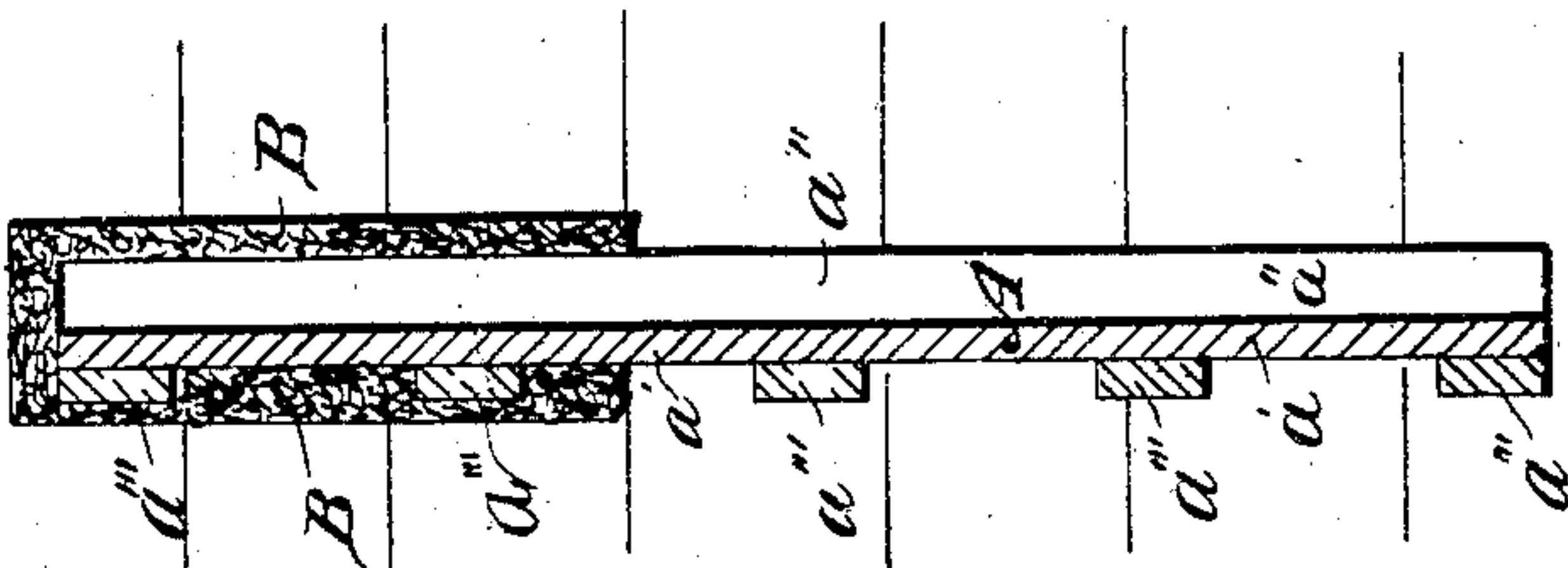
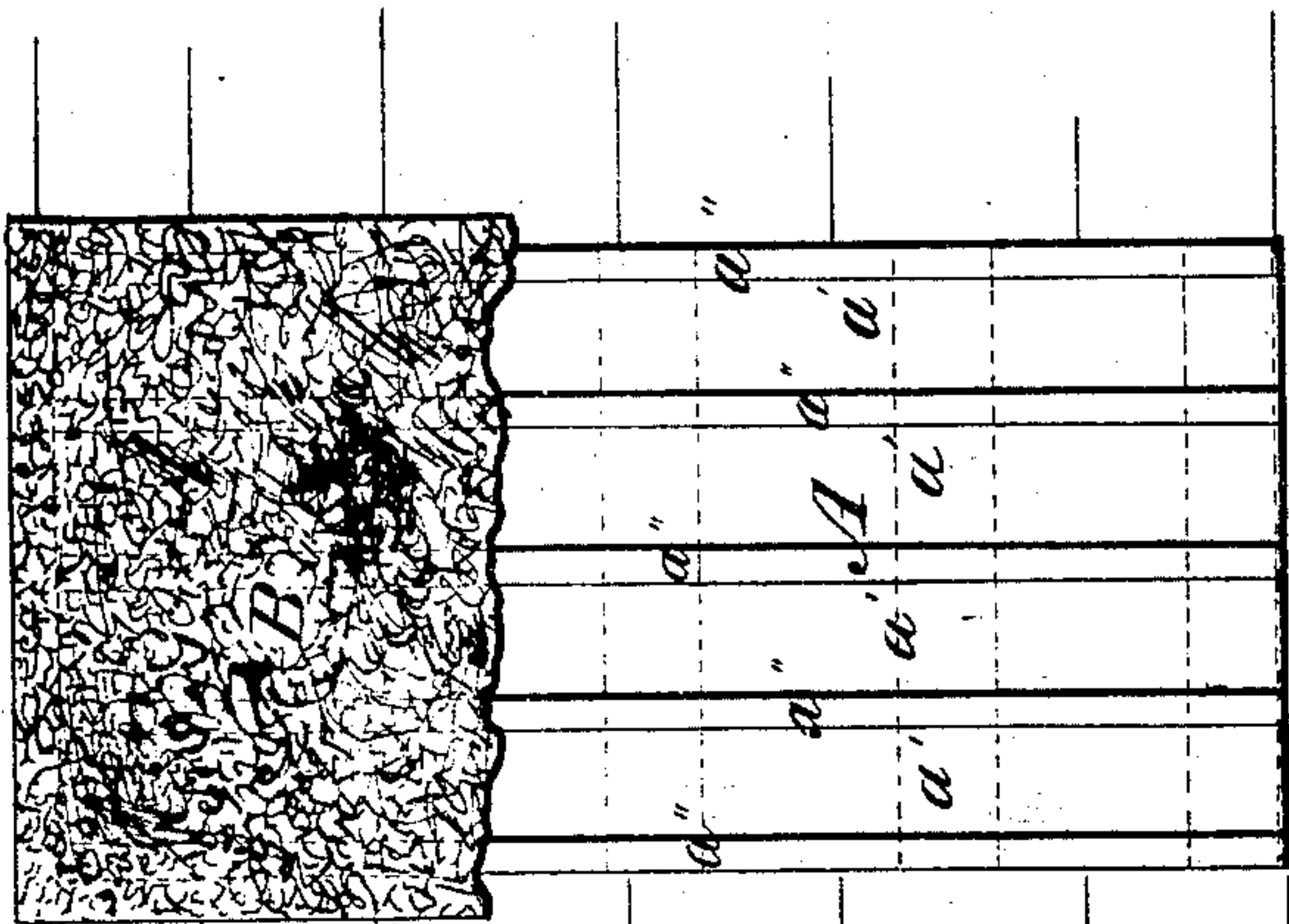


Fig. 1.



WITNESSES:

G. W. Evans.
J. M. Miller

INVENTOR:

Isaac Marsh Jr.

United States Patent Office.

ISAAC MARSH, JR., OF MILTON, PENNSYLVANIA.

Letters Patent No. 78,601, dated June 2, 1868.

COMPOSITION TILE OR SLAB FOR FLOORS, &c.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ISAAC MARSH, Jr., of Milton, in the county of Northumberland, and State of Pennsylvania, have invented a new and useful Improvement in the Composition-Tile or Slab for Pavements, Floors, &c.; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a plan view of the upper side,

Figure 2 a plan view of the lower side,

Figure 3 a transverse section, and

Figure 4 a longitudinal section of the said improved tile or slab, showing the composition as applied around one end only of the same, for the purpose of displaying the peculiar construction of the interior, like letters of reference indicating the same parts when in the different figures.

The object of my improvement is to afford within the slab or tile a permanent and reliable means of preventing the tendency to which a resinous composition-tile or slab has to bend or vary its form in extremely hot weather; and my invention consists in the employment of a supporting ribbed platform or skeleton-frame within, closely surrounded by and united with the exterior composition of the said tile or slab, substantially as hereinafter described.

Referring to the drawings, A is the ribbed platform or interior skeleton-frame, and B the resinous composition which forms the exterior portion of the slab or tile.

The platform or frame A consists of three or more series of strips of stiff wood, combined together by nailing, so as to afford a stiff and substantial support for the exterior resinous compound B, when the latter is moulded or cast around it.

In the present case the frame A consists of a series of horizontally-placed longitudinal pieces, $a' a'$, and a series of intervening longitudinal pieces, $a'' a''$, placed on their side edges, and a series of flat battens, $a''' a'''$, fixed transversely to the under sides of $a' a''$.

The resinous composition may consist of a cement composed of coal-tar, either raw, or distilled into a pitch, and then mixed with fine gravel, sand, or broken stone, or of pitch with any kind of dry clay or loam-dust, lime, and sand, or any dry solidifying materials that will produce a hard and durable wearing-surface or covering for the platform.

This composition being melted, the platform is to be thoroughly coated with it, and then suspended in a suitable mould, and the composition well-stirred and cast around it, so as to cover it with a thick body of the cement, substantially as represented in the drawings.

It will be seen that moisture can never get access to the platform, and therefore there will not be any liability to derangement from such cause, after the pavement has been laid.

I do not intend to confine myself to any particular size or form of the slab or tile, nor to the construction of the platform A, or to the use of the particular materials mentioned for the resinous compound, as it is obvious these may be varied, without changing the character of the invention; but having fully described my improvement,

What I claim as new, and desire to secure by Letters Patent, is confined to the following, viz:

I claim a composition-tile or slab for pavements, floors, &c., consisting of the composition surrounding and supported or strengthened by an interior platform or framework, substantially as described.

ISAAC MARSH, JR.

Witnesses:

G. W. EVANS,
JNO. MILLER.