

(No Model.)

H. A. DANIELS.

TILE.

No. 353,780.

Patented Dec. 7, 1886.

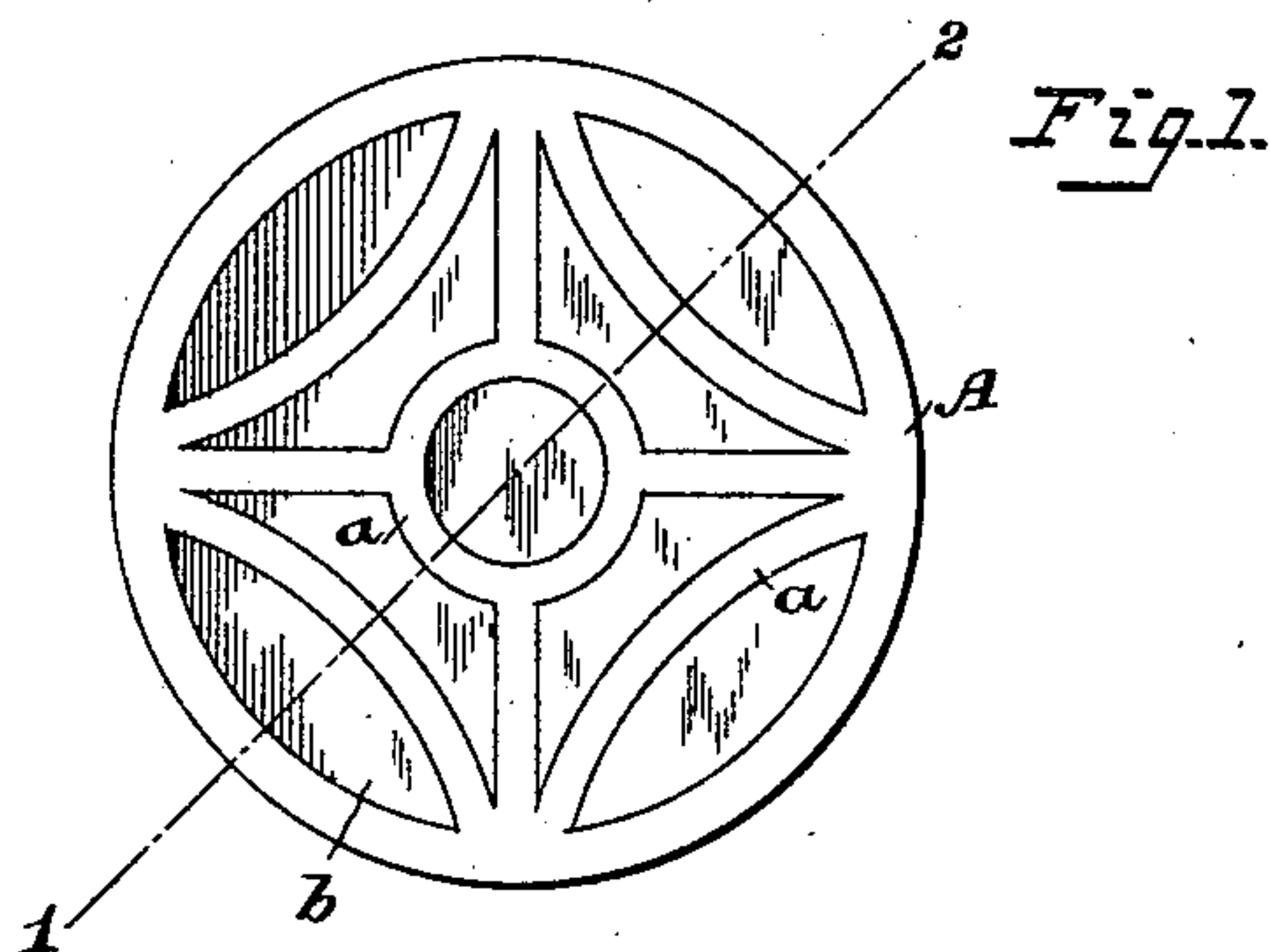


Fig. 1.

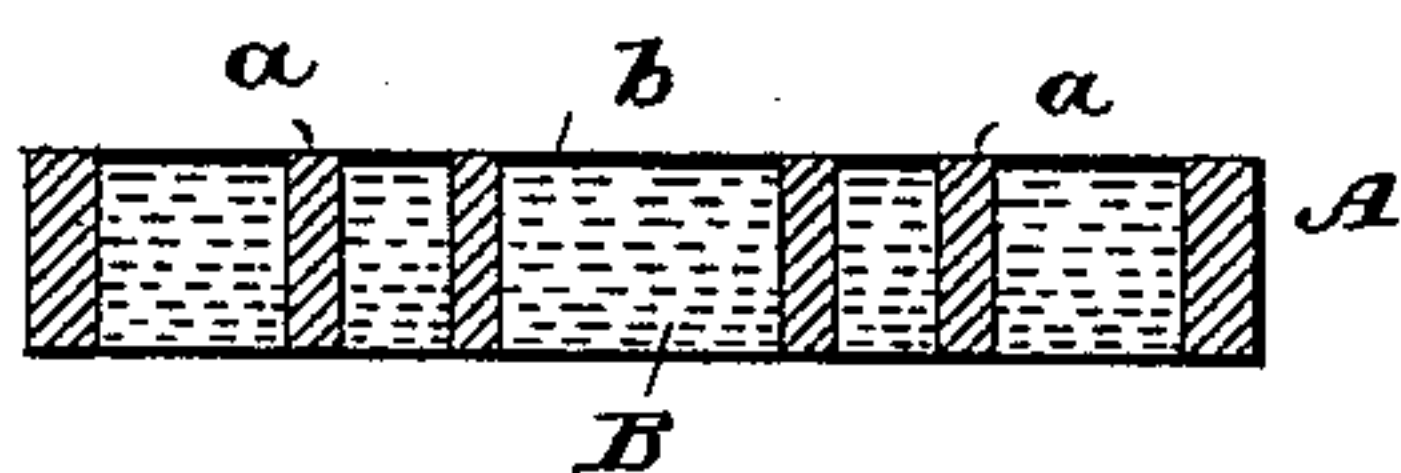


Fig. 2.

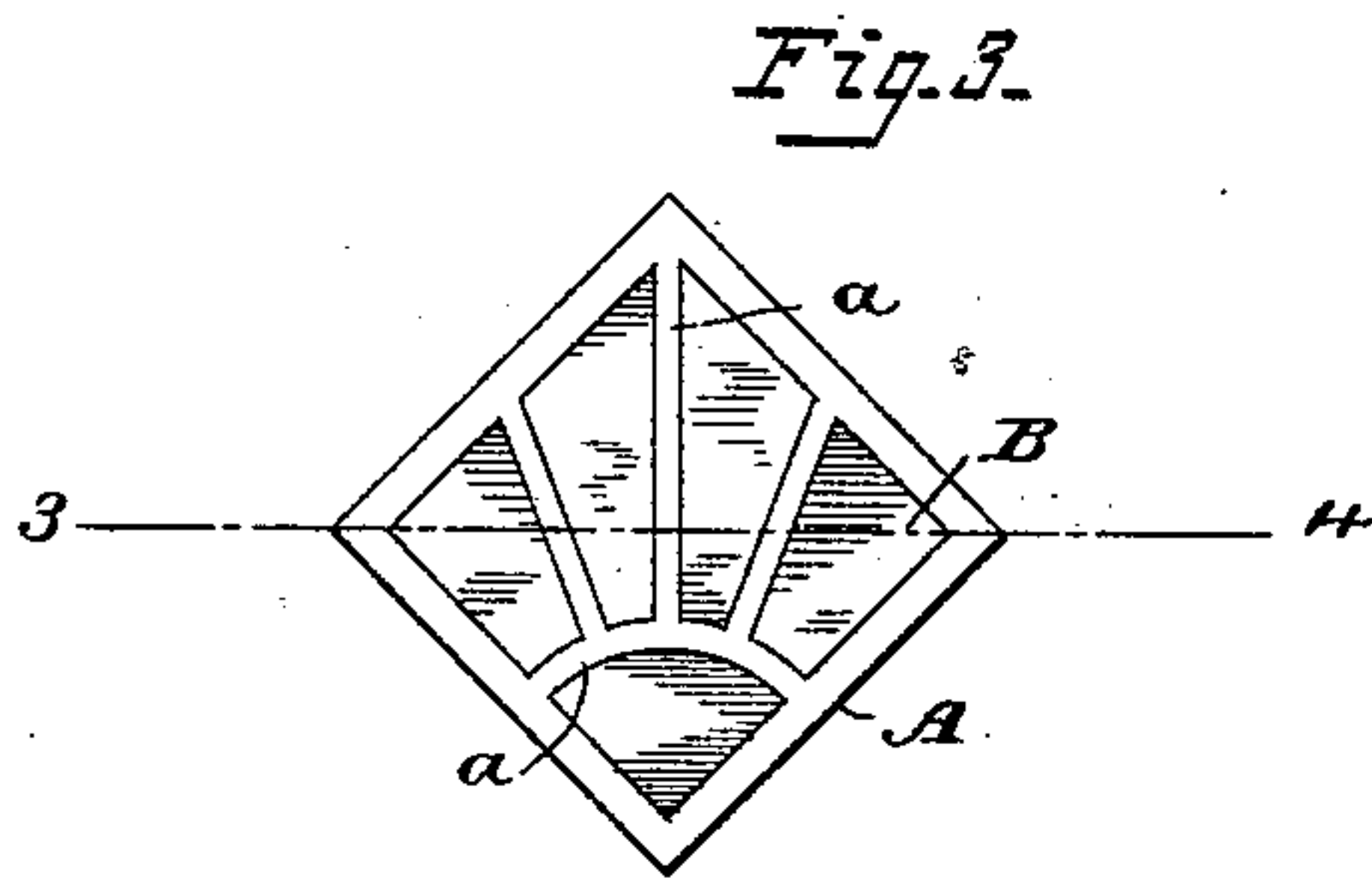


Fig. 3.

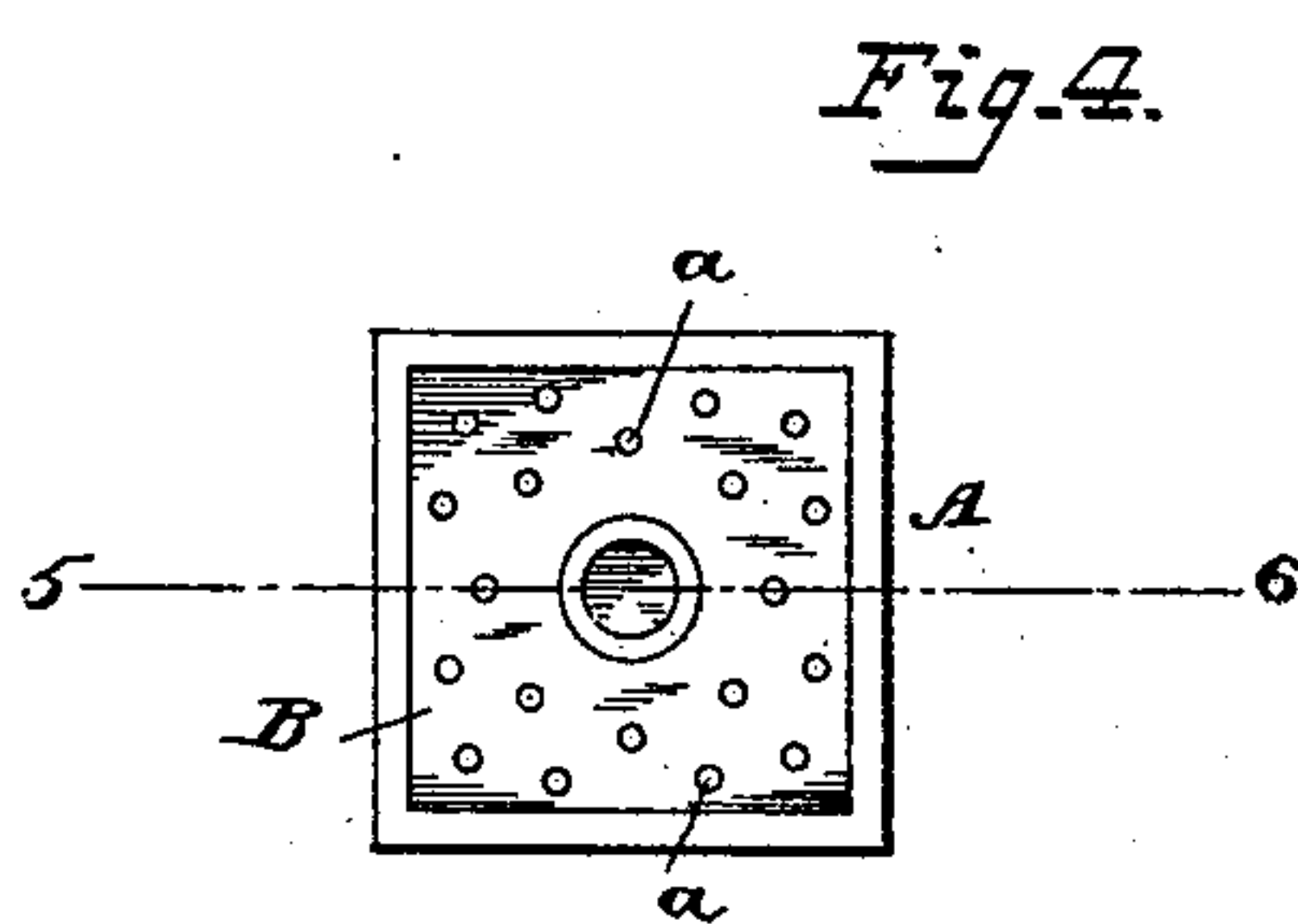


Fig. 4.

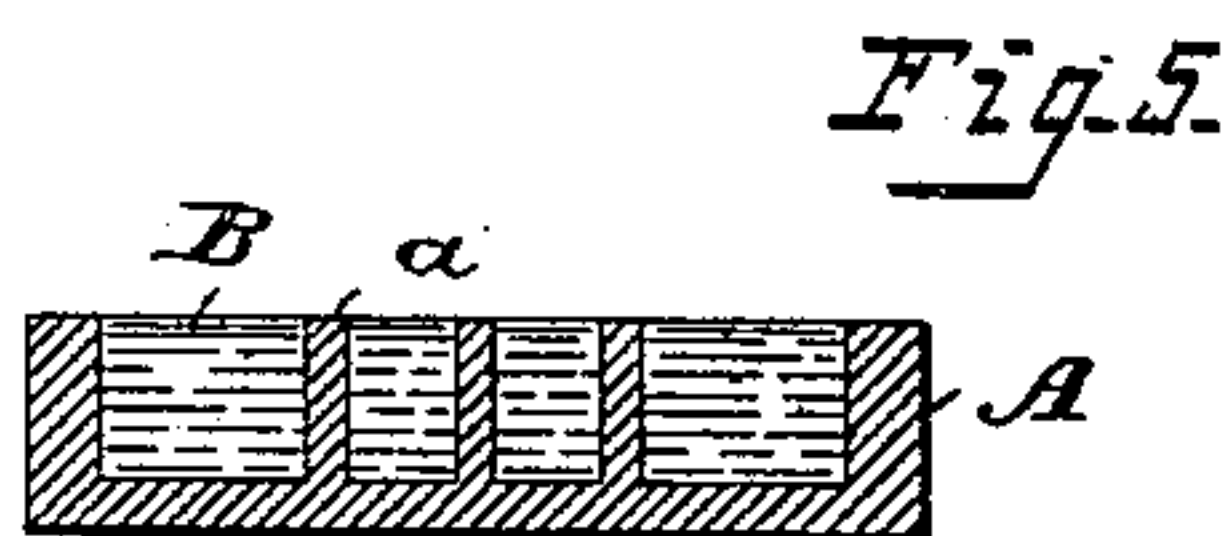


Fig. 5.

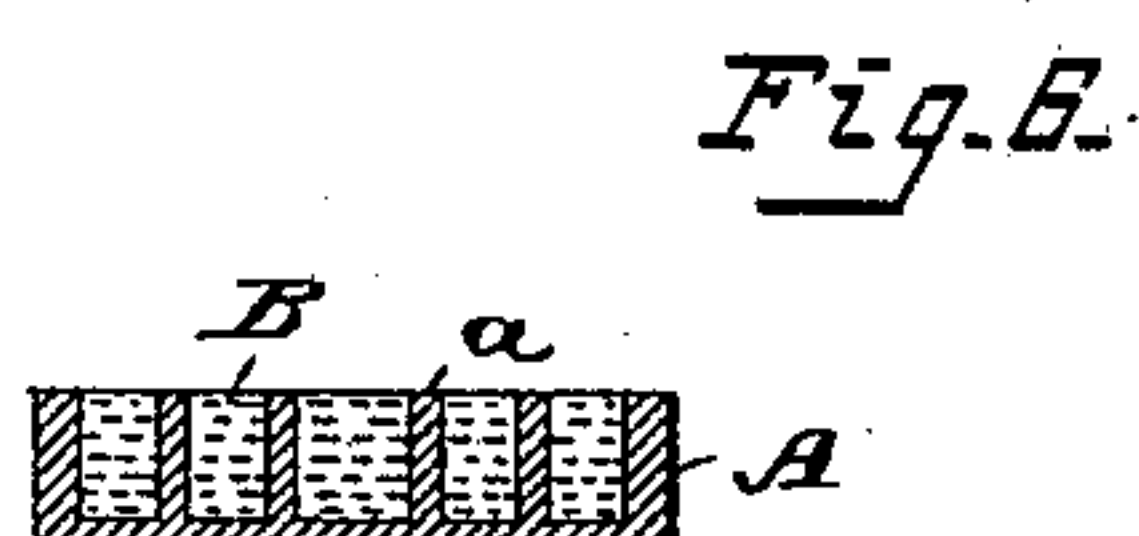


Fig. 6.

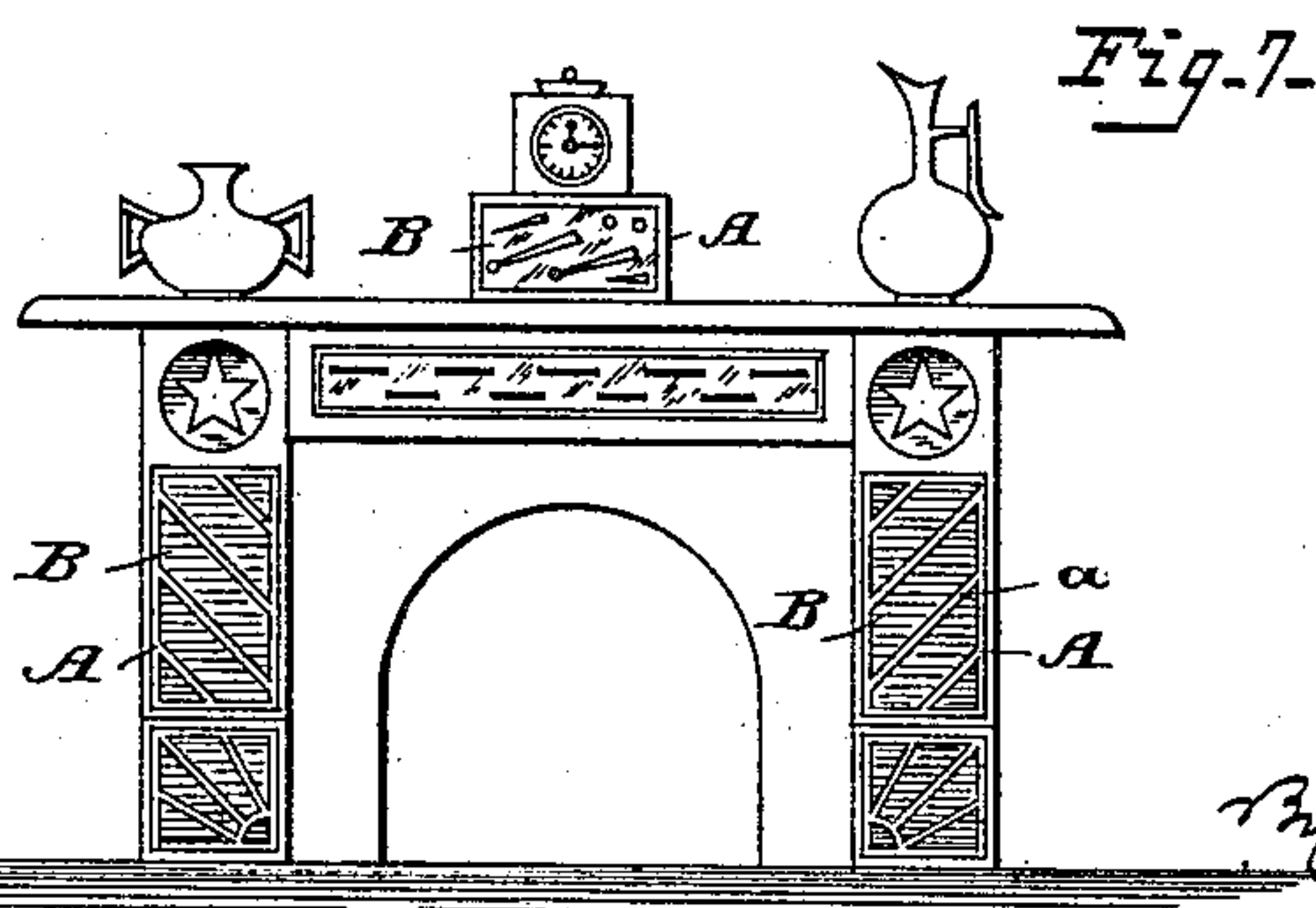


Fig. 7.

Attest:
Court, Cooper,
A. E. F. Lammann.

Henry A. Daniels,
Inventor:
By Foster & Freeman
attys.

UNITED STATES PATENT OFFICE.

HENRY A. DANIELS, OF YONKERS, NEW YORK.

TILE.

SPECIFICATION forming part of Letters Patent No. 353,780, dated December 7, 1886.

Application filed January 29, 1886. Serial No. 190,220. (No model.)

To all whom it may concern:

Be it known that I, HENRY A. DANIELS, a citizen of the United States, and a resident of Yonkers, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Tiles, of which the following is a specification.

My invention is an ornamental tile or block consisting of a metallic frame of any suitable ornamental outline—as, for instance, a bird, flower, or other object, according to the article to be produced; and such frame is provided in most instances with webs or projections, between which is placed an artificial-stone composition, hardened and polished, so that the whole will produce an ornamental surface of combined stone and metal, as fully set forth hereinafter, and as illustrated in the accompanying drawings, in which—

Figure 1 is a face view of an ornamental tile illustrating my invention. Fig. 2 is a section on the line 1 2, Fig. 1. Figs. 3 and 4 are face views showing other forms of tiles. Figs. 5 and 6 are sections, respectively, on the lines 3 4 5 6, Figs. 3 and 4. Fig. 7 is a view illustrating the application of the tiles to a chimney-piece and clock.

The tile consists, essentially, of a metallic frame and a filling of artificial stone.

The metallic frame A may be of any suitable outline and may be open both at the top and bottom, as shown in Figs. 1 and 2, or it may be closed at the bottom to make a shallow box, as shown in Figs. 3 to 6, and it is both ornamented and strengthened by ribs or webs or projections *a*, either extending from side to side, as shown in Figs. 1 to 3, or projecting from the bottom, as shown in Figs. 4, 5, and 6, the edges of the said webs or projections being flush with the edges of the frame.

The spaces between the sides of the frame and the webs or projections are filled with any suitable artificial-stone composition—as, for instance, the composition set forth in Letters Patent granted me, No. 291,971; but any other suitable composition may be employed, and in some instances a harder composition or enamel may be applied as a facing. Thus in Fig. 2 the composition B fills the spaces be-

tween the sides and webs of the frame A, and is covered on the face by an enamel layer, *b*.

In Fig. 1 the frame is shown as circular in form. In the other figures it is square or oblong, Fig. 7 showing the application of three oblong tiles, two circular tiles, and two square tiles to the ornamentation of a mantel of wood, slate, or other material, and also a clock-base ornamented by the insertion of an oblong tile.

The frames may be cast of brass or other metal, and may be filled with the composition while in their rough-cast state, the rough sides of the vessel tending to hold the composition in place, and the surface may then be ground and polished, thereby polishing the face of the metal and the stone at a single operation. In some instances the frame may be a solid block, with recesses to receive the composition, so that the metal will constitute the greater part of the surface, and the sides of the recesses may be dovetailed to aid in retaining the composition in place.

The tiles thus formed may be used in any suitable manner to constitute either ornamental facings or pavements, roadways, &c.; but when in positions to be subjected to wear they should be thicker and deeper than when merely used for ornamentation.

I am aware that it has been proposed to employ a metal frame with or without exterior flanges, or a base plate or frame with webs or projections raised thereon, but without an external frame, in connection with a concrete or artificial-stone filling to form a pavement, and I do not claim these features; but in such structures the frames are first placed in the position they are designed to occupy and the stone composition afterward deposited to complete the structure which has no inclosing-frame. My invention is distinguished from such constructions, in that I produce a merchantable tile consisting of a frame with inclosed webs or projections and a filling of artificial-stone composition hardened within the frame, the tile thus being a portable finished article ready for use.

Without limiting myself to the precise construction and arrangement of parts shown, I claim—

A tile consisting of an external frame, webs or projections inclosed by the frame and arranged to divide the same into recesses, and an artificial stone composition filling all the
5 recesses within the frame and flush with the edges of the said frame and with the webs or projections, the face of the tile thus consisting of metal and artificial stone, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY A. DANIELS.

Witnesses:

SCLAVEBACHER,
H. P. STAMFORD.