

(No Model.)

2 Sheets—Sheet 1.

F. KOSKUL.

MANUFACTURE OF ORNAMENTS, LETTERS, FIGURES, OR CHARACTERS
UPON A FOUNDATION MATERIAL.

No. 289,917.

Fig. 1. Patented Dec. 11, 1883.

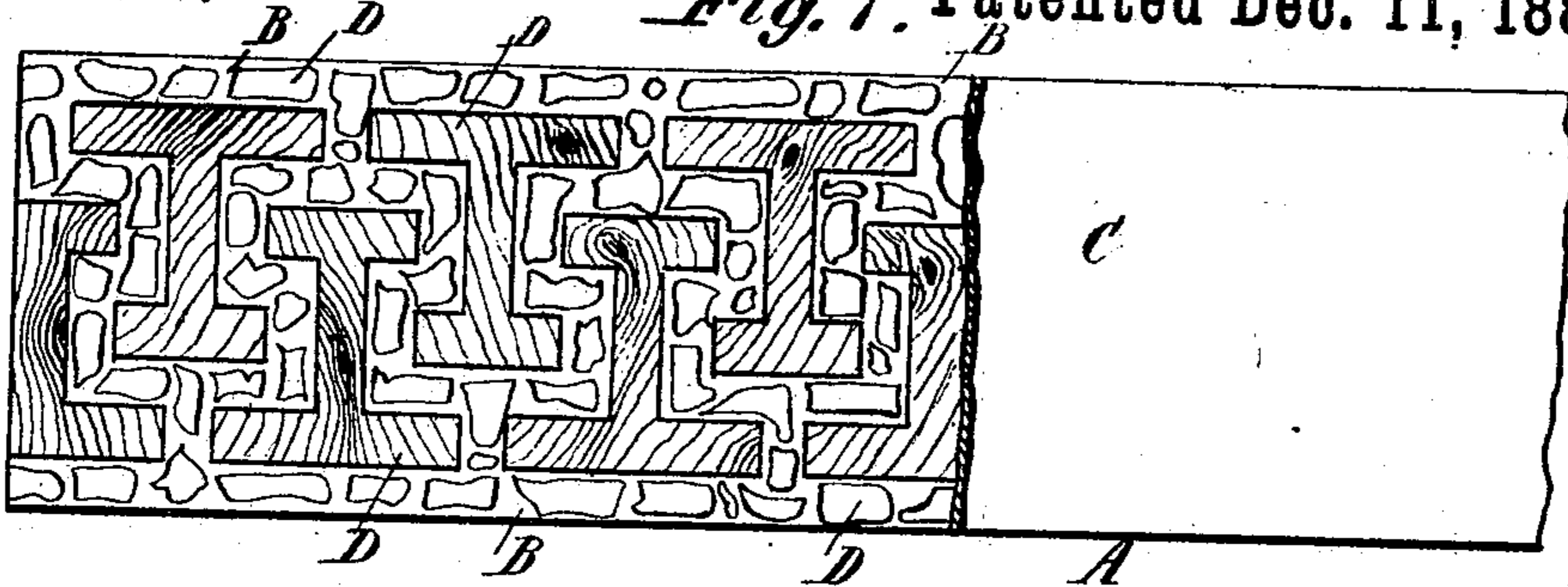


Fig. 2.

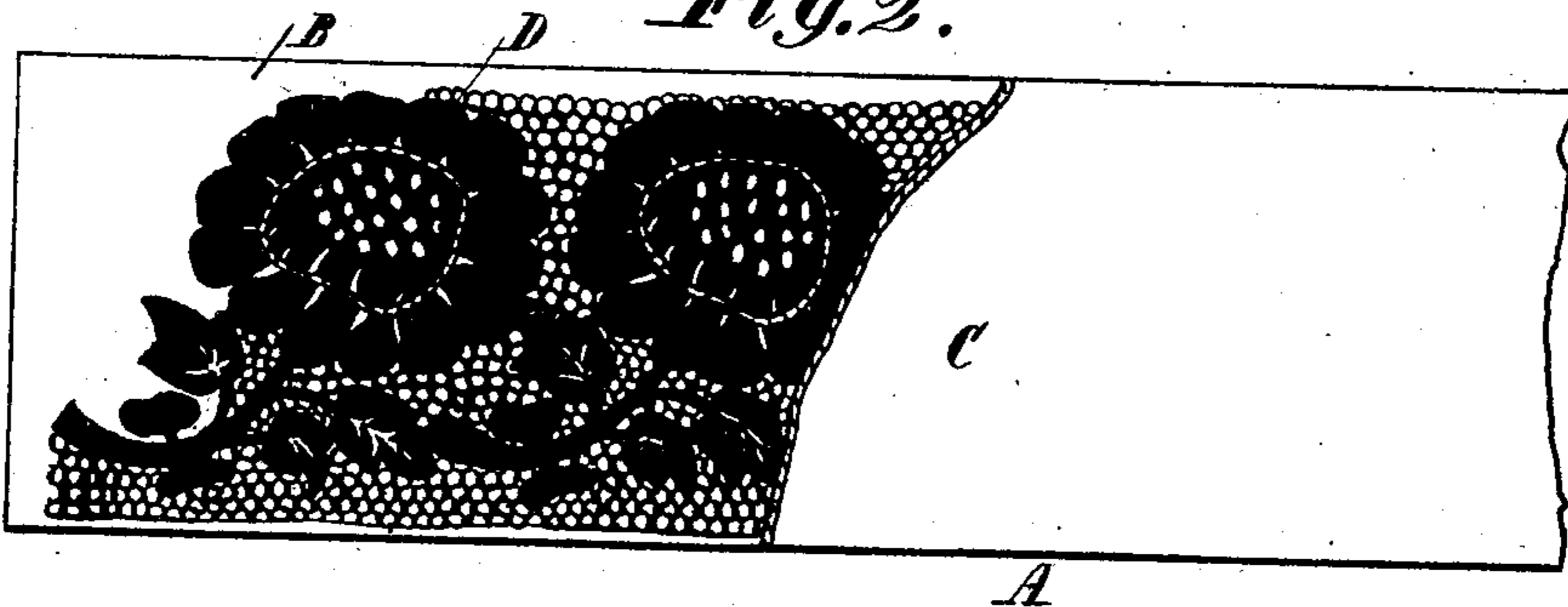


Fig. 3.

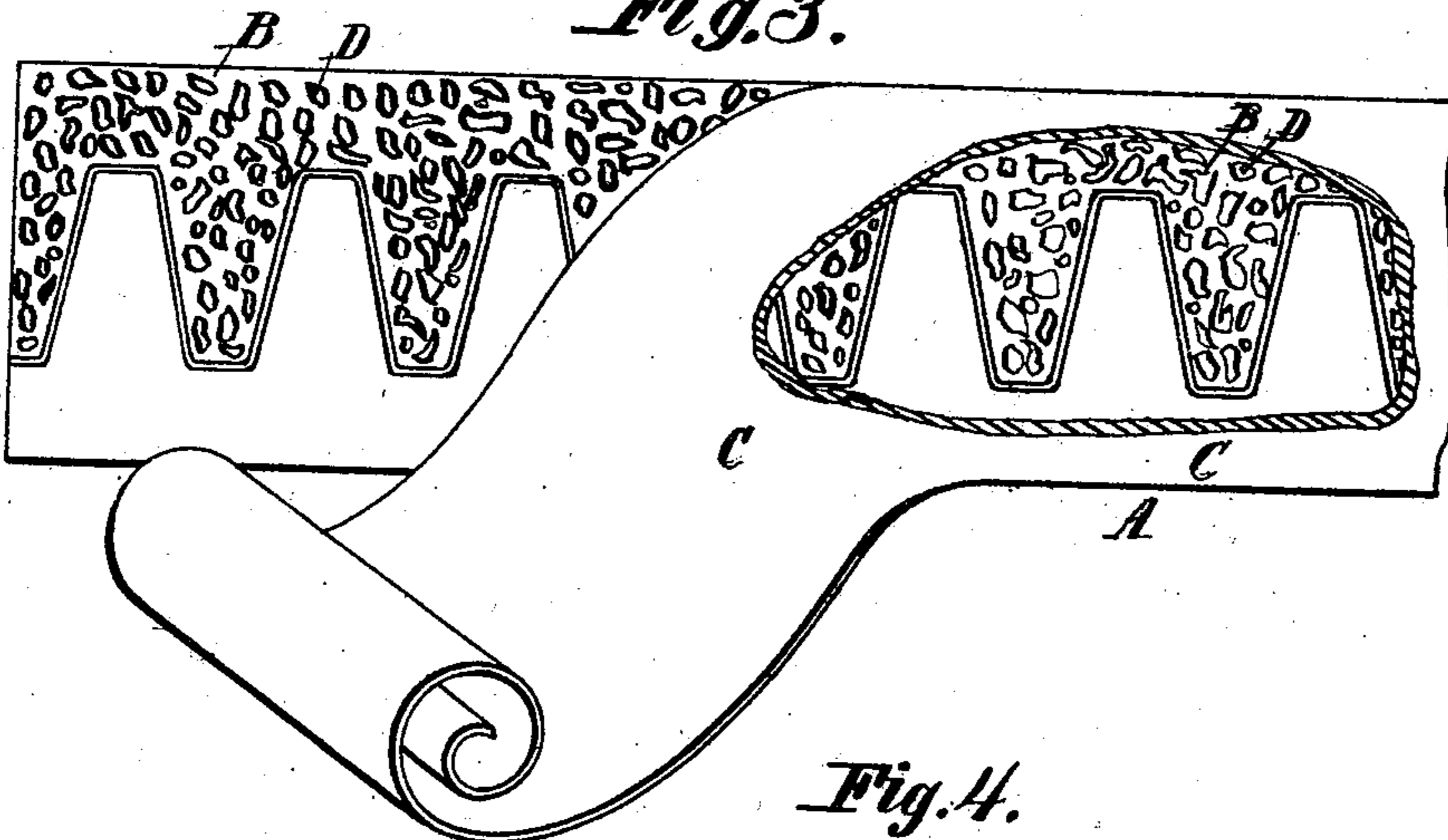
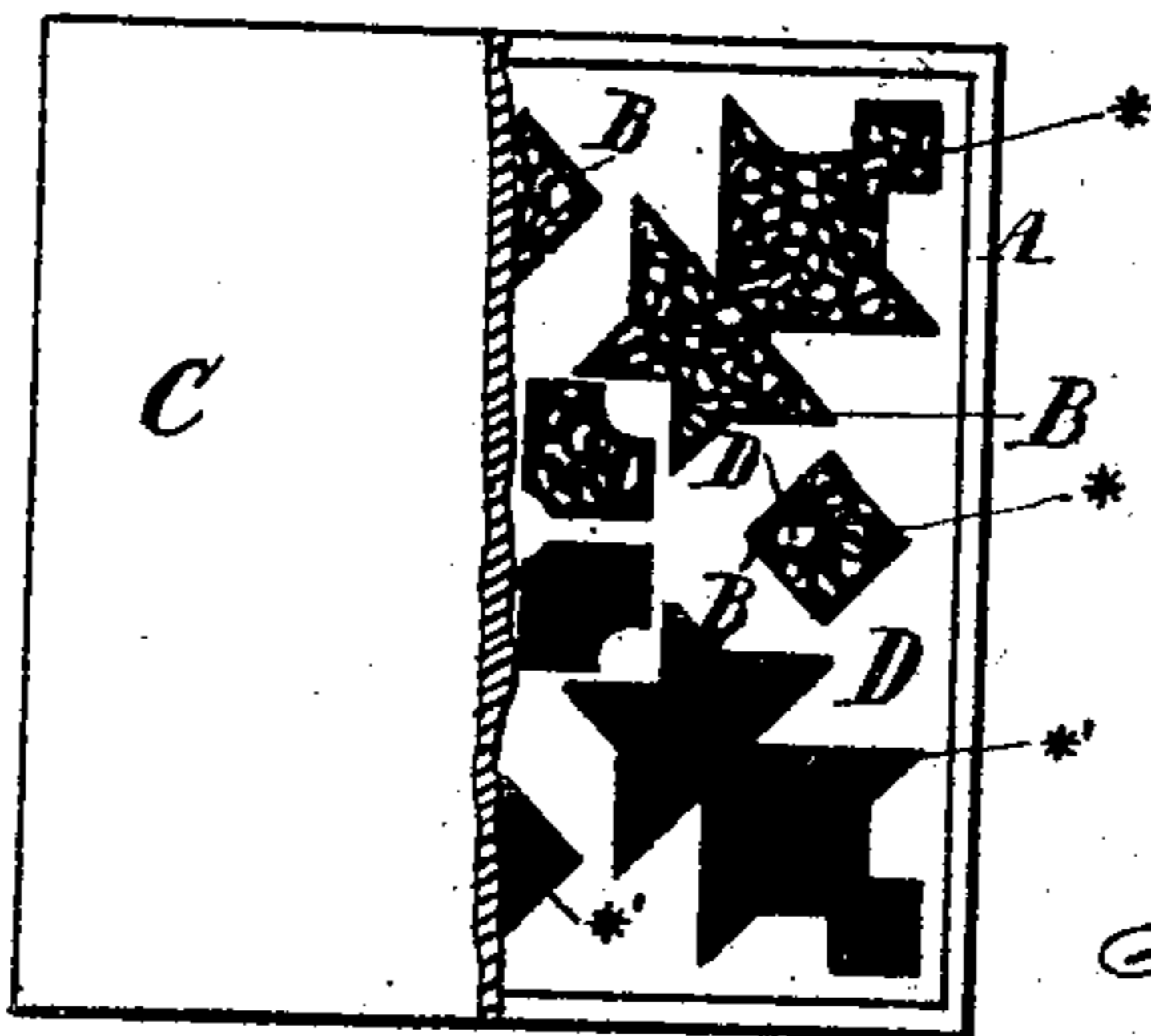


Fig. 4.



Attest

R. C. Fenwick.
Robt. L. Fenwick.

Inventor:

Fredrick Koskul
by his atty
Fenwick & Lawrence

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Fig. 5.

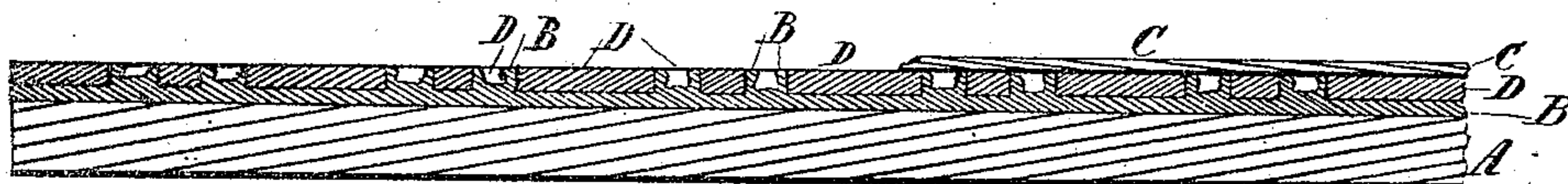


Fig. 6.

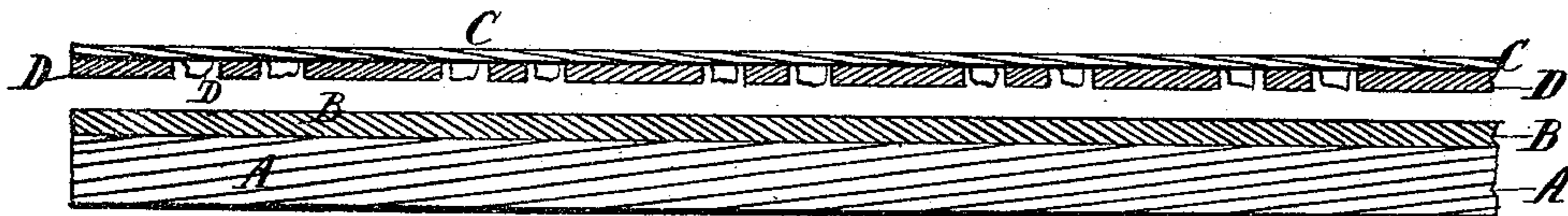


Fig. 7.

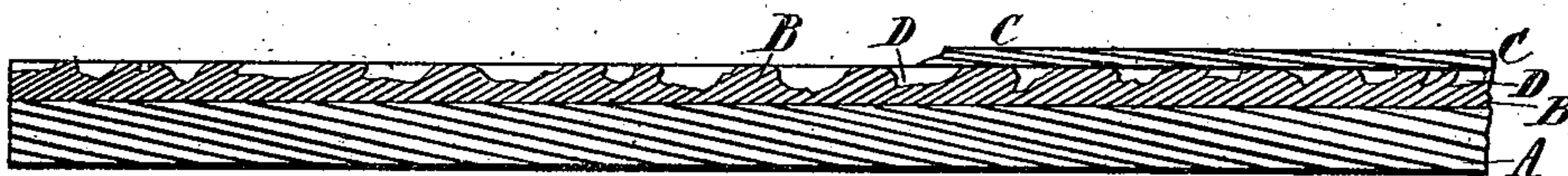
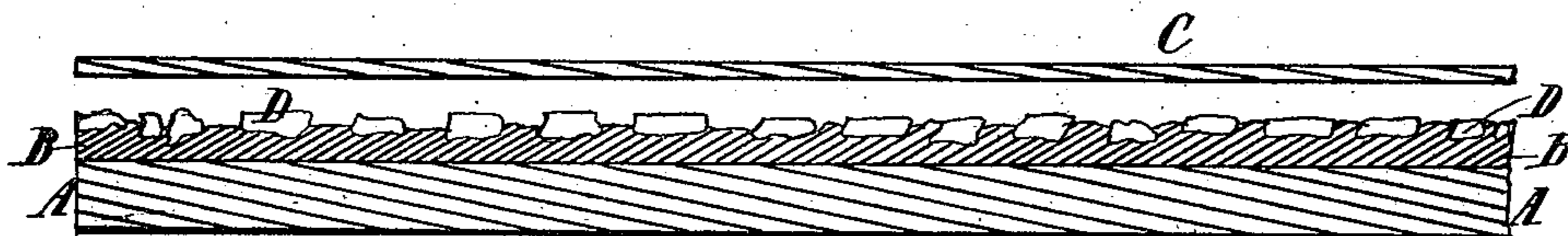


Fig. 8.



Attest:

Robt L. Fenwick
Robt L. Fenwick

Inventor

Frederick Koskul
by his atty
Fenwick & Lawrence

UNITED STATES PATENT OFFICE.

FREDERICK KOSKUL, OF ST. LOUIS, MISSOURI.

MANUFACTURE OF ORNAMENTS, LETTERS, FIGURES, OR CHARACTERS UPON A FOUNDATION MATERIAL.

SPECIFICATION forming part of Letters Patent No. 289,917, dated December 11, 1883.

Application filed October 16, 1883. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK KOSKUL, a citizen of the United States, residing in the city and county of St. Louis, and State of Missouri, have invented a new and useful improvement in the manufacture of ornaments, letters, figures, or characters upon a foundation of any desired material, of which the following, in connection with the annexed drawings and letters of reference thereon, is a specification.

My invention consists, first, in the herein-after-described new process of making ornaments, letters, figures, or characters upon foundation material; second, in the product consisting of foundation material with ornaments, letters, figures, or characters upon it; and, third, in the combination of certain parts, all as hereinafter described and specifically claimed.

In Figure 1 I have represented a front view of a piece of foundation material with ornamental design upon it, prepared and treated in accordance with my invention, the same being as it appears when finished and partly deprived of the paper or other covering which is used in its production. The design in this figure is formed of pieces of wood and interposed irregular pieces of pearl-shell, the said fragments being separated, so as to show a portion of the background or surface of the wood, metal, paper, or other suitable foundation, or the color of the varnish. Figs. 2, 3, and 4 are similar views to Fig. 1, but showing different ornamental designs, one of which, Fig. 3, having a zigzag-shaped metal strip set into the varnish-coat upon the foundation material, and illustrating one of many ways in which metal may be used as an ornament. Fig. 5 is a horizontal section of Fig. 1. Fig. 6 is a horizontal section of the foundation material with its embedding-varnish applied thereto, and of the ornamental devices attached to their protection and covering paper or other material, this view showing the ornaments and paper out of contact with the embedding-varnish and ready to be laid against the same, as in Fig. 5. Fig. 7 is a horizontal section illustrating a different way of applying the ornaments to the foundation material, the ornaments being placed upon the embedding-varnish of the said foundation material before the paper or other fibrous covering is brought in

contact with them; and Fig. 8 shows a horizontal section of the parts shown in Fig. 7 as they appear before the paper is brought in contact with the ornaments.

To perform my process and produce foundation material having either ornaments, letters, figures, or characters of any desired or selected design upon it, I proceed as follows: Prepare a foundation-piece A, of either wood, metal, paper, or any other suitable material, with a good covering of one, two, or more coats of shellac or other varnish. If desired, pigments to produce any desired color may be introduced into the varnish. This coating forms an embedding-surface, B, for ornaments, letters, figures, or characters. Next prepare a piece of paper or other suitable protection and covering material, C, with cementing substance on one of its surfaces, and take any desired ornaments, letters, figures, or characters, D, made of thin material—such as wood, metal, celluloid, shell, or pearl, or any other suitable material—and apply the same to the cement-coated surface of the paper. If found more convenient or desirable, the ornaments may have the cementing material applied to them instead of its being applied to the paper. When the varnish coat is perfectly dry, the portions A B and C D are brought together, with the ornaments D lying face downward upon the varnish embedding-surface B, and then either a warm or hot board, warm or hot iron plate, or warm or hot roller or rollers placed upon the upper surface of the paper C, and through one or the other of these implements the whole subjected to heat and pressure sufficient to insure melting of the varnish embedding-surface B and the embedding of the ornaments into the surface B. The protection or covering paper is removed when the ornamented foundation material is used, in order to expose the ornaments to the eye. The heated board or iron plate may be acted upon by a screw, while the roller may be pressed down by springs or manual force while it is rolled over the paper C.

Any suitable mode or means for applying pressure may be adopted, as well as any suitable mode of heating the board, plate, or roller—as, for instance, I may use the common hand smoothing-iron.

As another way of performing the process

and producing foundation material having ornaments upon it, the ornaments D may be placed directly upon the varnish surface B without being first fastened to the paper C, in which case the paper will be placed upon the ornaments and heat and pressure applied, as in the first instance. This done, the paper will be removed (whenever the manufactured product is brought into use) to expose the ornaments. I prefer the process first described, and as illustrated in Figs. 5 and 6.

The gist of my invention lies in a foundation material, either of wood, metal, paper, or other suitable substance, having a varnish coat, which is allowed to become dry, and the ornaments of any description, or letters, figures, or characters, covered by paper, and the whole united in one body by heat and pressure. As the heated pressing implement softens the varnish, care must be had that it is not used too hot.

The object sought by the heat and pressure, in the illustrations herein given of my invention, is to effect such an embedment of the ornaments into the varnish as will produce ornamented foundation material having a plane surface after the paper covering C is removed.

My invention may be employed in the production of an entire panel, as follows: A whole panel with border and other adjuncts might be sawed out to show a very rich ornament when pressed into varnish, and the sawed-out parts might be filled with pearl-shell or particles of metal, as illustrated in Fig. 4. In such case but little, if any, of the varnish surface B remains to be seen if the sawed-out parts are filled out with pearl-shell or other ornamentation, as illustrated at * in Fig. 4; but if they are not filled out the spaces will show the color of the varnish surface B, as illustrated at * in said Fig. 4.

In carrying out my invention, it will be found that the ornaments to be adopted are almost innumerable, a few of which may be mentioned as instances—to wit, sawed-out ornaments of wood, cut-out ornaments of metal, or ornaments of particles of metal, pearl-shell, and the like.

By using paper as the foundation material A, having a dried varnish coating, B, for receiving the ornaments, a wall-covering consisting of paper, varnish, metal, or wood veneer might be manufactured by following my herein-described process; and by pressing thin metal ornaments into dry transparent varnish applied to walnut foundation material a walnut background will be visible when the paper covering C is removed; and by pressing wood veneering into dry varnish applied to metal foundation material a metal background would be visible when the said paper covering is removed.

I contemplate employing my process in the production of foundation material having ornaments of convex, concave, rectangular, elliptical, cyma recta, cyma reversa, and other

shapes embedded in varnish applied upon said material, and in such cases the heated board or iron plate used to heat or melt the varnish and press and unite the whole mass into one body will have shapes corresponding to the ornamentation of the foundation material or mold. I also contemplate applying the heat to the foundation material upon which the varnish is applied, instead of heating the upper covering. This, however, may not be desirable as a hot board, plate, or rollers will be far more effective than cold implements run over the paper.

Under my invention of employing heat and pressure various results may be produced—as, for instance—

First. Wood, metal, or composition ornaments can be pressed into a coating of varnish applied to other material serving as a foundation, said wood, metal, or composition ornaments to represent either sawed-through or open work, and when pressed into the varnish to unite into one body the ornament, the varnish coating, and the foundation material. Basso-relievo or raised ornaments can also be produced by either heating the ornaments and pressing them into the varnish, or by heating the foundation material and coating-varnish, or by sawing out wood to a shape required and pressing it by a heated plate into the covering of varnish, and afterward carved.

Second. A transfer consisting of a film of varnish, or, in other words, a varnish veneering similar to my patent allowed March 15, 1883, Serial No. 73,482, may be transferred to paper or other foundation by heating and pressure.

Third. Transferring of any kind of prints upon a varnish-surface by means of heat and pressure, the front being placed upon transfer-paper or other common paper not prepared specially. For instance, the print of a newspaper can be transferred, the print adhering to the varnish and the paper being washed away with very little difficulty.

I do not herein claim any of the special ways mentioned under the last three paragraphs denominated first, second, third, as I shall apply for separate patents therefor.

I make no claim under this patent for the varnish veneers and mode of applying ornaments thereto or thereon or therein, described and claimed in patents allowed to me on May 15 and June 8, 1883.

I am aware of Letters Patent No. 236,383; but this patent does not show or embrace any invention which I claim.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The process of producing embedded ornaments, letters, figures, or characters upon foundation material, consisting in applying a coat or coats of varnish upon said material, allowing this varnish to become dry, applying the ornaments upon the varnish beneath a covering of fibrous material, and applying heat and pressure upon the mass, and the remov-

ing the covering to expose the ornaments, substantially as described.

5. 2. The new article of manufacture herein described, consisting of the foundation material having ornaments, letters, figures, or characters embedded into a varnish applied to the material, and protected by a removable covering, which, when taken away, exposes the ornaments, substantially as described.

3. The combination, with the foundation material A, dried varnish coat B, and pressed embedded ornaments D, of the paper or fibrous removable covering, substantially as an for the purpose described.

FREDERICK KOSKUL.

Witnesses:

VIRGIL M. HARRIS,
FRED. G. KLEIN.