

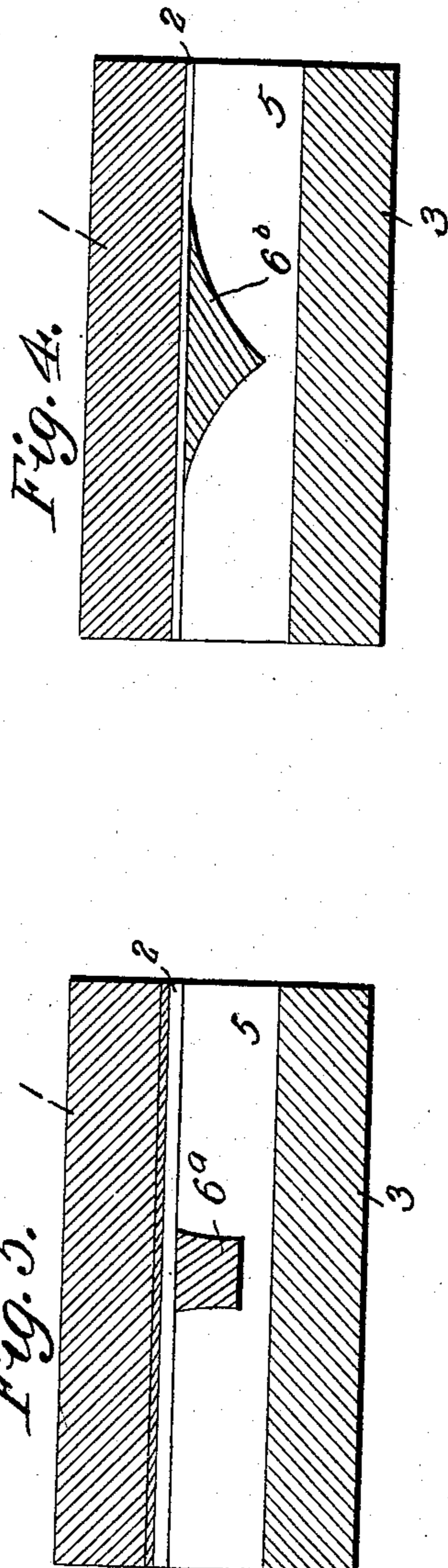
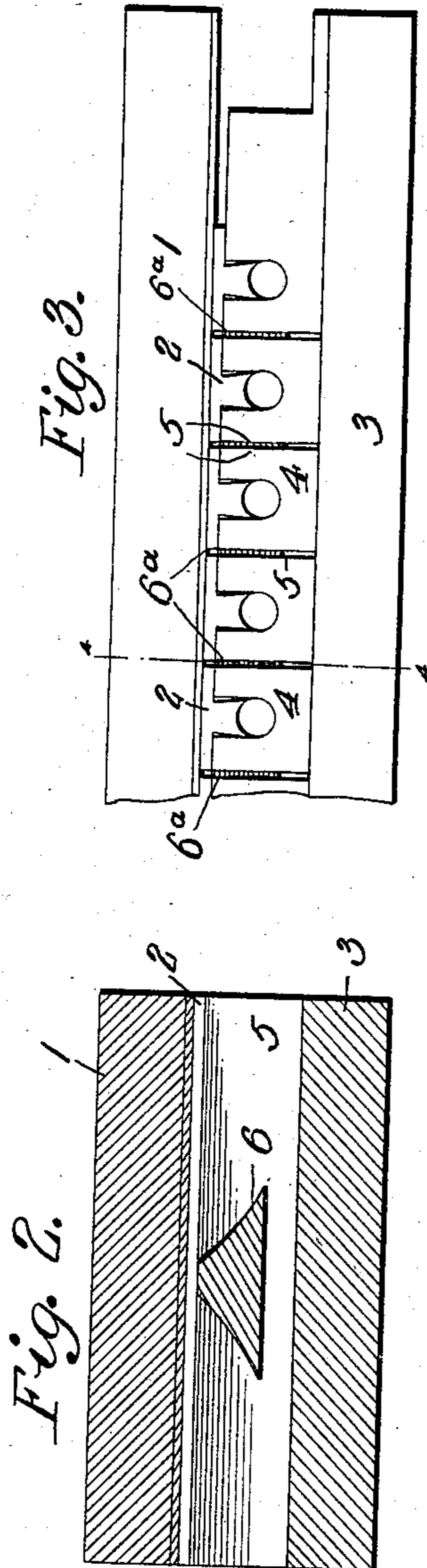
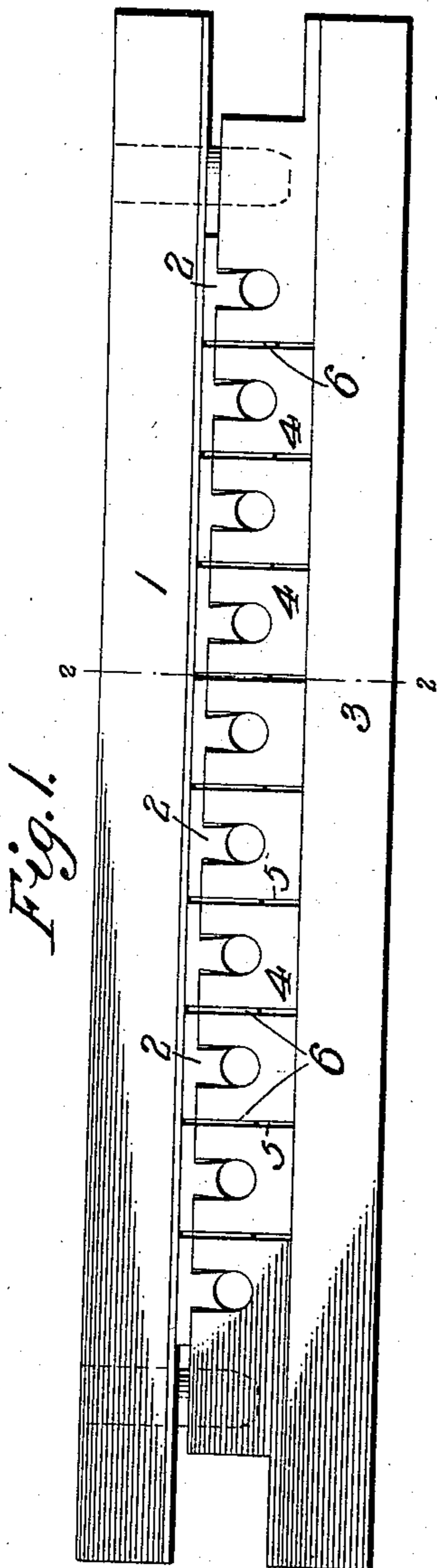
No. 889,773.

PATENTED JUNE 2, 1908.

N. DU BRUL.
CIGAR MOLD.

APPLICATION FILED NOV. 19, 1907.

2 SHEETS—SHEET 1.



Witnesses

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Fig. 6.

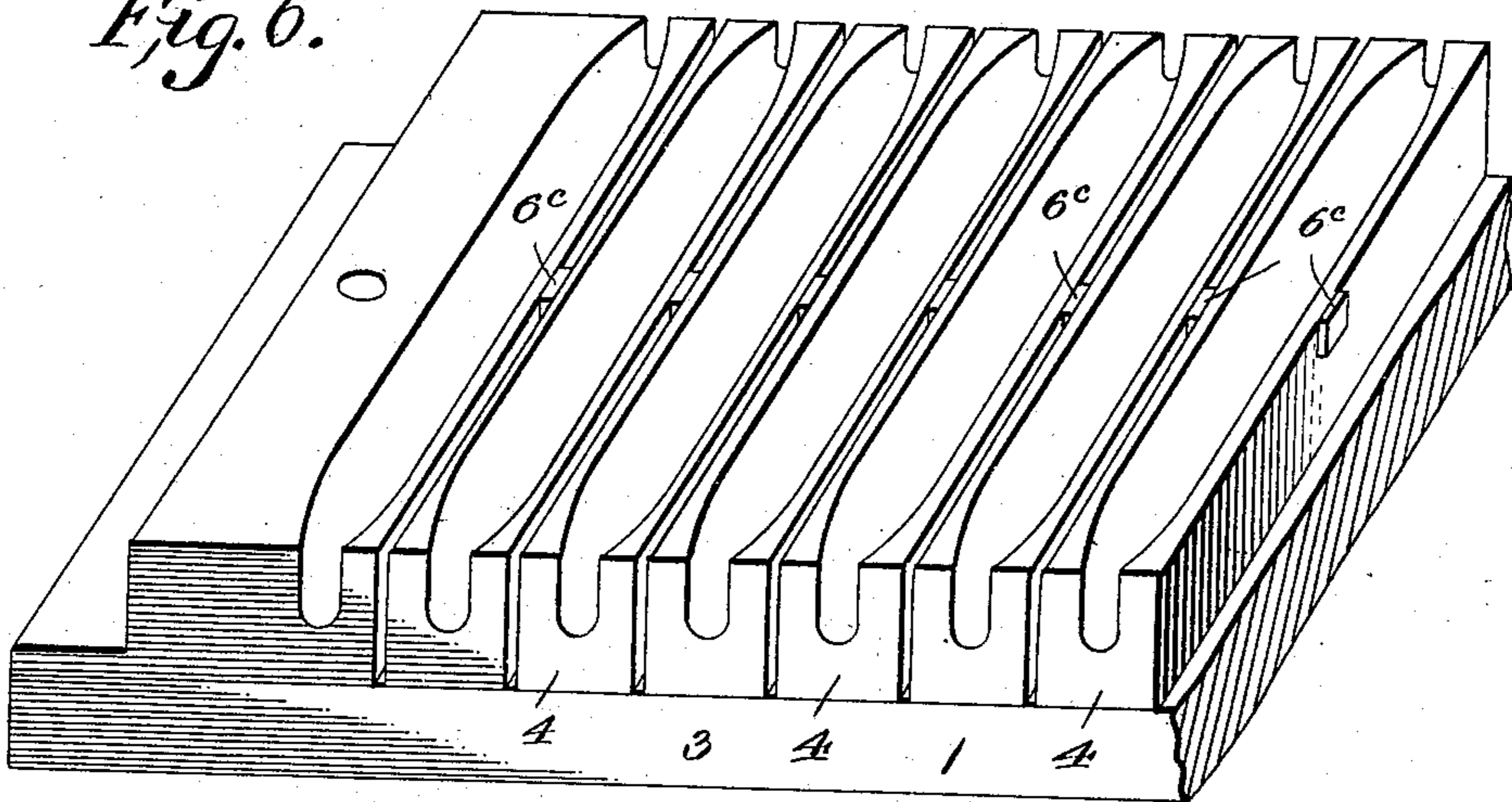


Fig. 7.

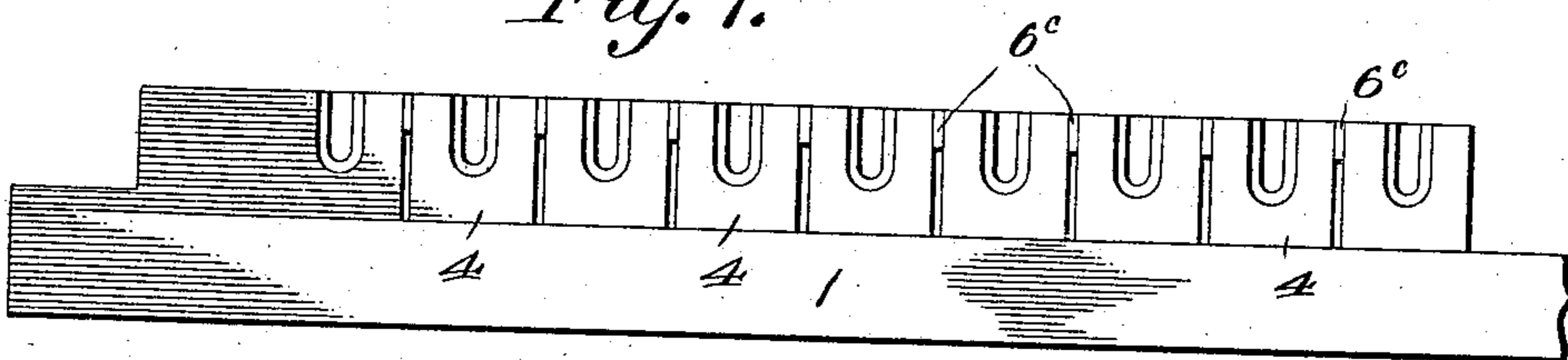


Fig. 8.

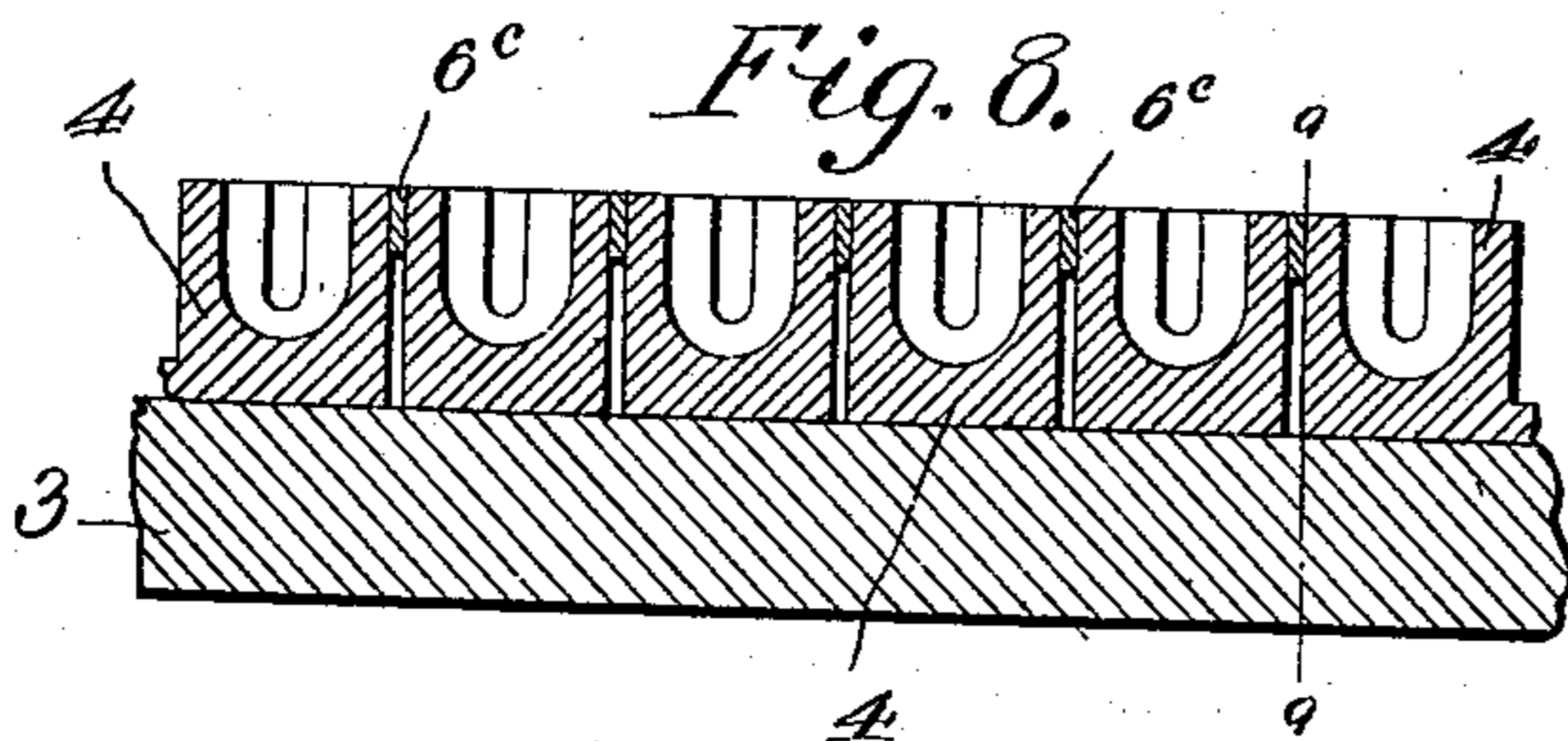
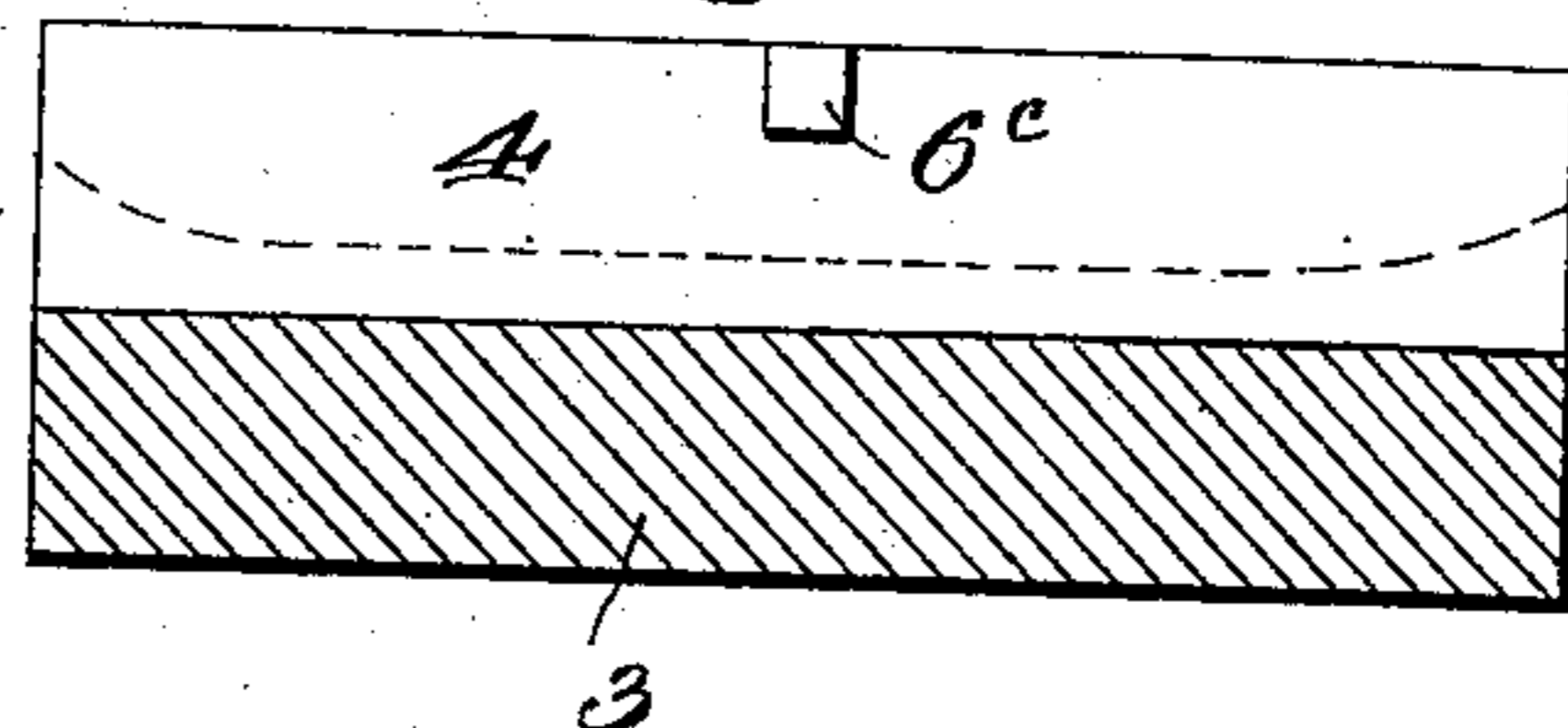


Fig. 9.



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UNITED STATES PATENT OFFICE.

NAPOLEON DU BRUL, OF CINCINNATI, OHIO.

CIGAR-MOLD.

No. 889,773.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed November 19, 1907. Serial No. 402,837.

To all whom it may concern:

Be it known that I, NAPOLEON DU BRUL, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Cigar-Molds, of which the following is a specification.

In my Letters Patent No. 847,558, granted March 19, 1907, I have described and broadly claimed a cigar mold having means between the opposed walls of adjacent lower cavities for maintaining their positions and preventing spreading thereof, and in illustrating the same have shown the blocks in which the lower cavities are formed, made from a single piece of wood and separated only for portions of the transverse dimension so as to leave integral portions of wood between them at suitable intermediate points, to retain the walls against spreading; these spacing portions of wood being defined by two intersecting saw kerfs which enter from the upper portion of the outer ends, inward and downward and whose arcs extend from the outer ends of the blocks near their base, inward and upward to the tops of the blocks at or near the middle line of the mold. While this spacing and tying means between the walls of the lower cavities is of great importance, it is also important to so construct the lower cavities or the members in which the same are formed as to leave them practically in sections to prevent their lower parts from swelling and permanently spreading.

My present invention therefore consists in so restricting the tying and spacing means to the intermediate portions of opposed walls that the members are not only separated over a greater part of the area of their flexible walls, but such a separation extends to the bases of said members as well. The separation at the bases extends, in the preferred form of my invention, throughout the length of the members since tying and spacing below the area of the flexible portions of the walls is not desirable. While this tying and spacing means is preferably (for convenience and economy of manufacture) provided by leaving integral portions of the wood between the cavity members, it may be provided as hereinafter explained by inserting separate pieces of material of the de-

sired area and securing such inserted pieces by gluing or otherwise.

The described arrangement secures the advantages of tying together and spacing apart, the walls of the lower or cavity members, at the points where the tying and spacing is of utility and where it will secure the advantages of my previous Letters Patent referred to, while leaving these lower cavity members disconnected from each other, and in sections, throughout those portions where it is desired to retain flexibility, and those portions where swelling and permanent spreading seek to take place in consequence of moisture, changes in temperature, etc.; moreover, by uniting the walls as described and notwithstanding their separation to the extent set forth, the sections of the mold are better held to their backings and are not so liable to separate therefrom as in molds where the sections are entirely divided. In the several embodiments of my present invention full elasticity is secured in both ends of the cavity which give the cigar its shape, while the intermediate portions of the walls of said cavity are prevented from permanent spreading and are reinforced and the bases of the cavity members left with air spaces between them, thus making a stronger and more durable mold, and one that produces better work.

My invention will be fully understood upon reference to the accompanying drawings, in which several embodiments are shown by way of illustration, and in which:

Figure 1 is a side view of the preferred embodiment of my invention; Fig. 2 is a vertical transverse section on the line 2—2, Fig. 1; Figs. 3 and 4 are respectively a side view and a section on the line 4—4, Fig. 3, showing a modified embodiment; Fig. 5 is a vertical transverse section of a further modification; and Figs. 6, 7, 8 and 9 are respectively a perspective view, a side view, a vertical longitudinal section and a vertical transverse section of the lower member of a cigar mold in which the features of my present invention are embodied, by inserting separate pieces of material at suitable points between the cavity sections.

1 represents the upper member carrying the cups 2 of well known construction and 3 represents the lower member carrying the

cavity sections 4 whose general form, dimensions and purpose are well understood by those skilled in the art to which the invention belongs.

5 For reasons already explained, it is desirable to have the side walls 5 of the cavity sections 4 tied together and definitely fixed in their spaced relations; at the same time the necessity for this tying and spacing of
10 said walls is limited to the upper flexible walls thereof or say to the area not lower than the bottom of the cavity while the presence of spacing and tying means at the bases of the cavity members is objectionable; at
15 the same time, it is desirable to have the outer ends of the upper portions of these walls flexible or yielding. To meet these several conditions I provide the tying and spacing portions 6 preferably of integral portions of
20 the material as shown in Figs. 1 and 2 and defined by three intersecting saw kerfs, one of which extends straight across the bottom, before applying the cavity member to its backing, while the other two conveniently
25 formed after attachment of the backing, extend from the outer ends inward and downward till they intersect the first, so as to leave the triangular portion of wood shown in Fig. 2 or the equivalent thereof. My in-
30 vention is not limited, however, to the particular form of spacing and tying portion shown in Fig. 2 for the advantages thereof might be realized by making the two latter
35 kerfs substantially straight, extending inwardly and transversely across the material from each longitudinal edge of the group of lower cavity members, to within a short distance of the middle, producing, for instance,
40 the form shown in Fig. 5 where the spacing and tying portion is represented by 6^a. Or it would be fully within the scope of my invention if the separation between the lower intermediate portions as well as the outer
45 ends of the cavity members, and the tying and spacing portion between the upper intermediate portions, were made by two intersecting saw kerfs extending inwardly and upwardly from the bases of the outer ends of the
50 members so as to leave the form of tying and spacing portion illustrated at 6^b in Fig. 4. Or the advantages of my invention can be mainly realized though with less convenience in manufacture, if separate pieces of material
55 6^c, of proper area are introduced between the cavity sections as suggested in Figs. 6, 7, 8 and 9.

As stated, the embodiments of the invention are only illustrative; other embodiments will naturally be suggested by the
60 described principles of my invention, to those skilled in the art.

From the foregoing description, it will be seen that in the member of the mold in which the cavities are formed, while having

its cavity sections connected in part and 65 separated in part, the separation extends throughout the area of the ends of the sections, and throughout their bases, so as not only to leave room for flexibility of the side
70 walls, and expansion and contraction of the bases, but to give access to the air which prevents harboring moisture in such quantities as would affect the mold. While I preferred the separation to extend entirely
75 across the base portions of the sections, I do not limit myself to the precise form.

In using the designation "connected" I intend to convey not only the idea of spacing and tying, as where there is adhesion or cohesion between adjacent sections, or a
80 medium inserted between them, but the idea of being merely in abutment, as by having the members contact, at the point of connection, as disclosed in my copending application, Serial No. 402,838.
85

When a mold is constructed as above described, it is less subject to warping or swelling than if the walls are solid, consequently a perfect registration of the upper part of
90 the mold is secured, an easier working mold is assured, and cigars of more uniform size will be produced.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. In a cigar mold, a lower member having its cavity sections separated in part and connected in part; the separation extending
95 throughout the area of the outer portions, from base to top, of the sections, and the connection being confined to the intermediate portion.
100

2. In a cigar mold, a lower member having its cavity sections separated in part and connected in part; the separation extending
105 throughout the area of the outer portions, from base to top, and completely across the base portion of the sections and the connection being confined to the intermediate portion.
110

3. In a cigar mold, a lower member having its cavity sections separated in part and connected in part; the separation extending
115 throughout the area of the outer portions, from base to top of the sections, and the connection being confined to the intermediate portion, said connection embodying a tying as well as a spacing means.

4. In a cigar mold, a lower member having its cavity sections separated in part and connected by integral portions of the sections in
120 part; the separation extending throughout the area of the outer portions, from base to top, of the sections and the connection being confined to the intermediate
125 portion.

5. In a cigar mold, a lower member having the cavity sections separated throughout

their walls except at the intermediate portions of opposed walls and there provided with connecting means.

6. In a cigar mold, a lower member having
5 the cavity sections separated throughout their walls except at the intermediate portions of opposed walls and there provided with connecting means, both spacing and tying the walls, at such point, in fixed rela-

tion, while leaving the walls free throughout 10 the remainder of the areas.

The foregoing specification signed at Washington, D. C., this 9 day of September, 1907.

NAPOLEON DU BRUL.

In presence of—

HERVEY S. KNIGHT,
EDWIN K. CLARKSON.