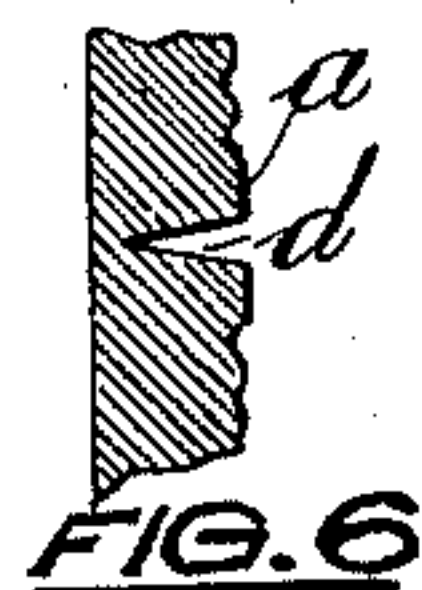
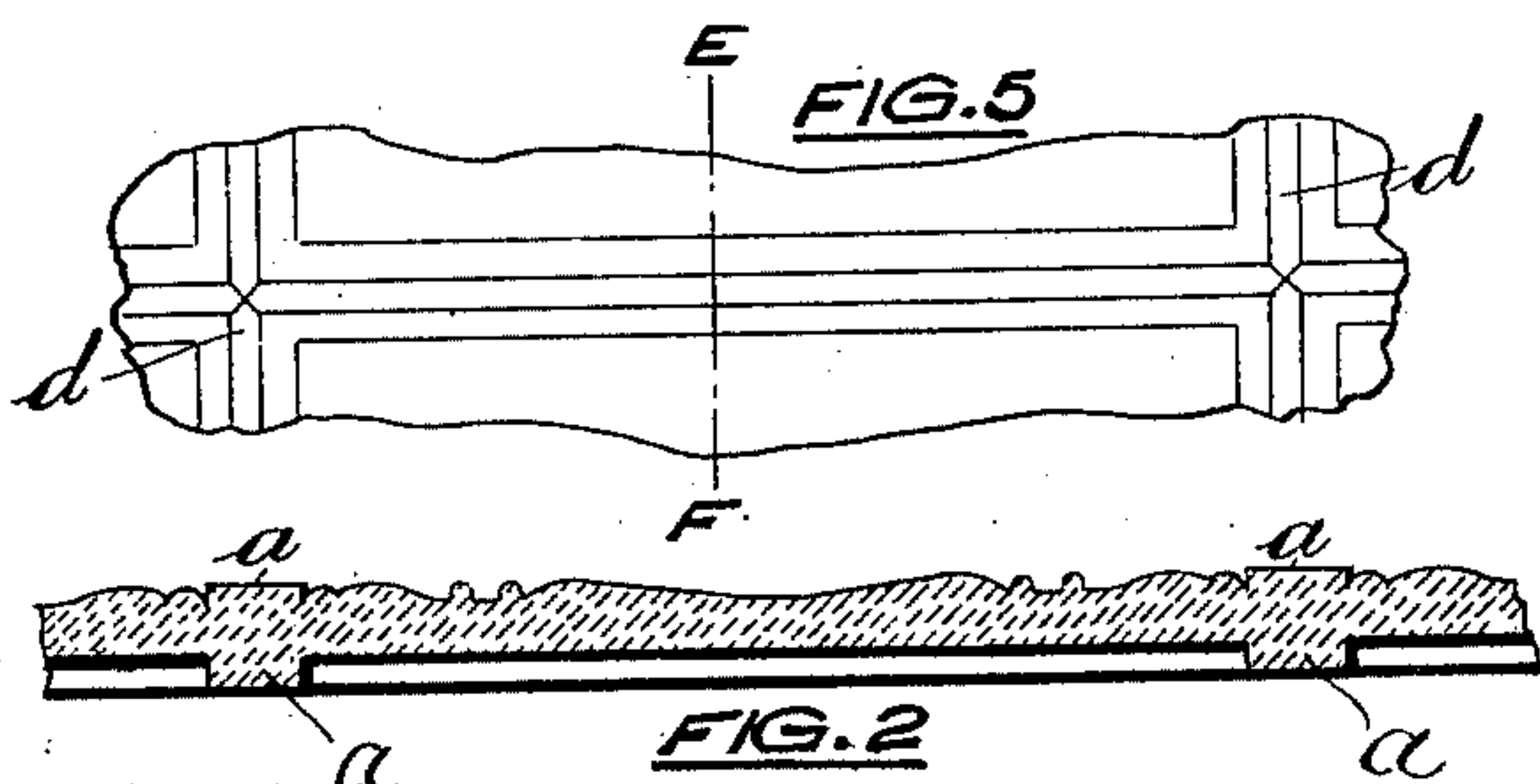
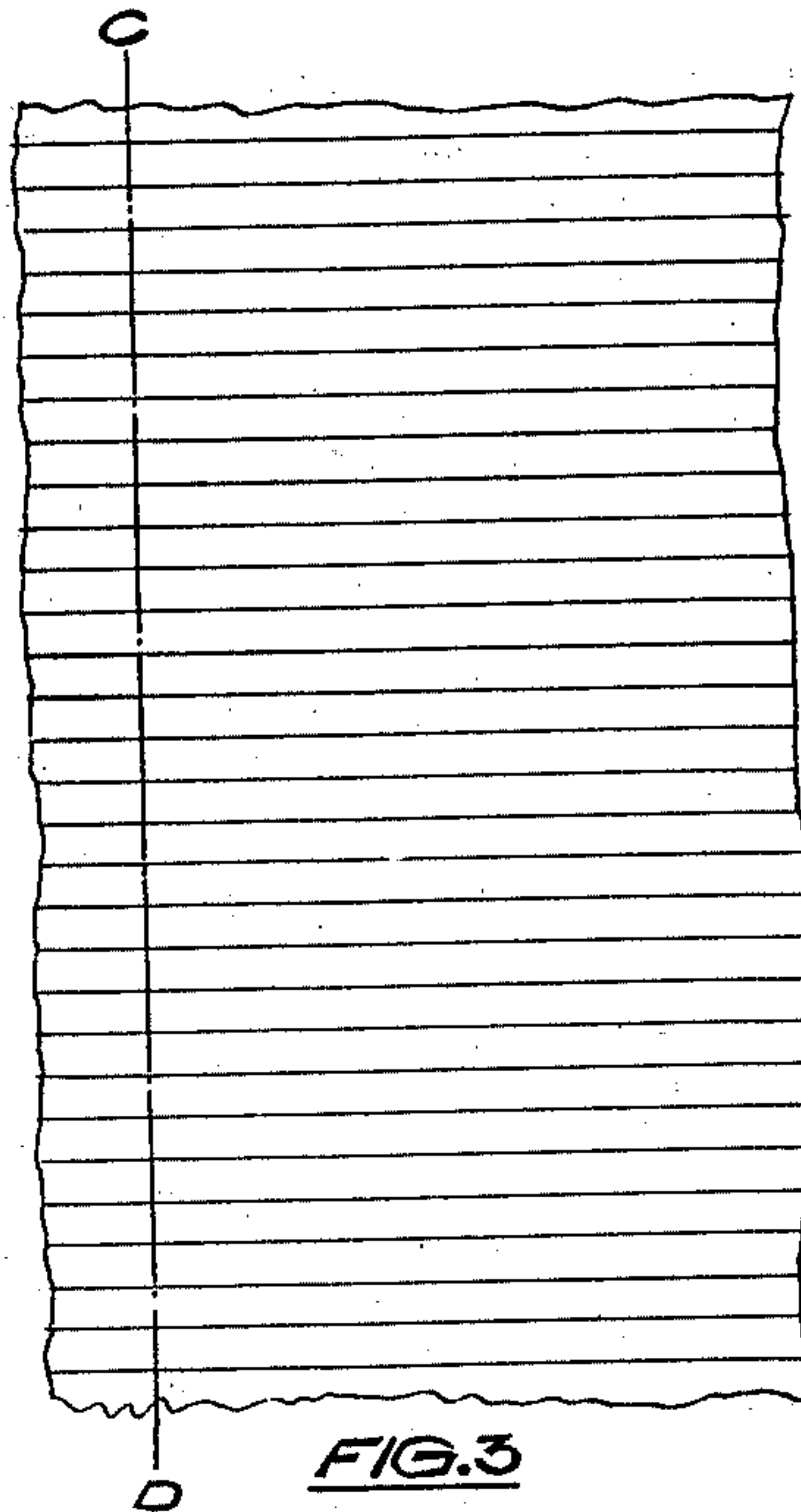
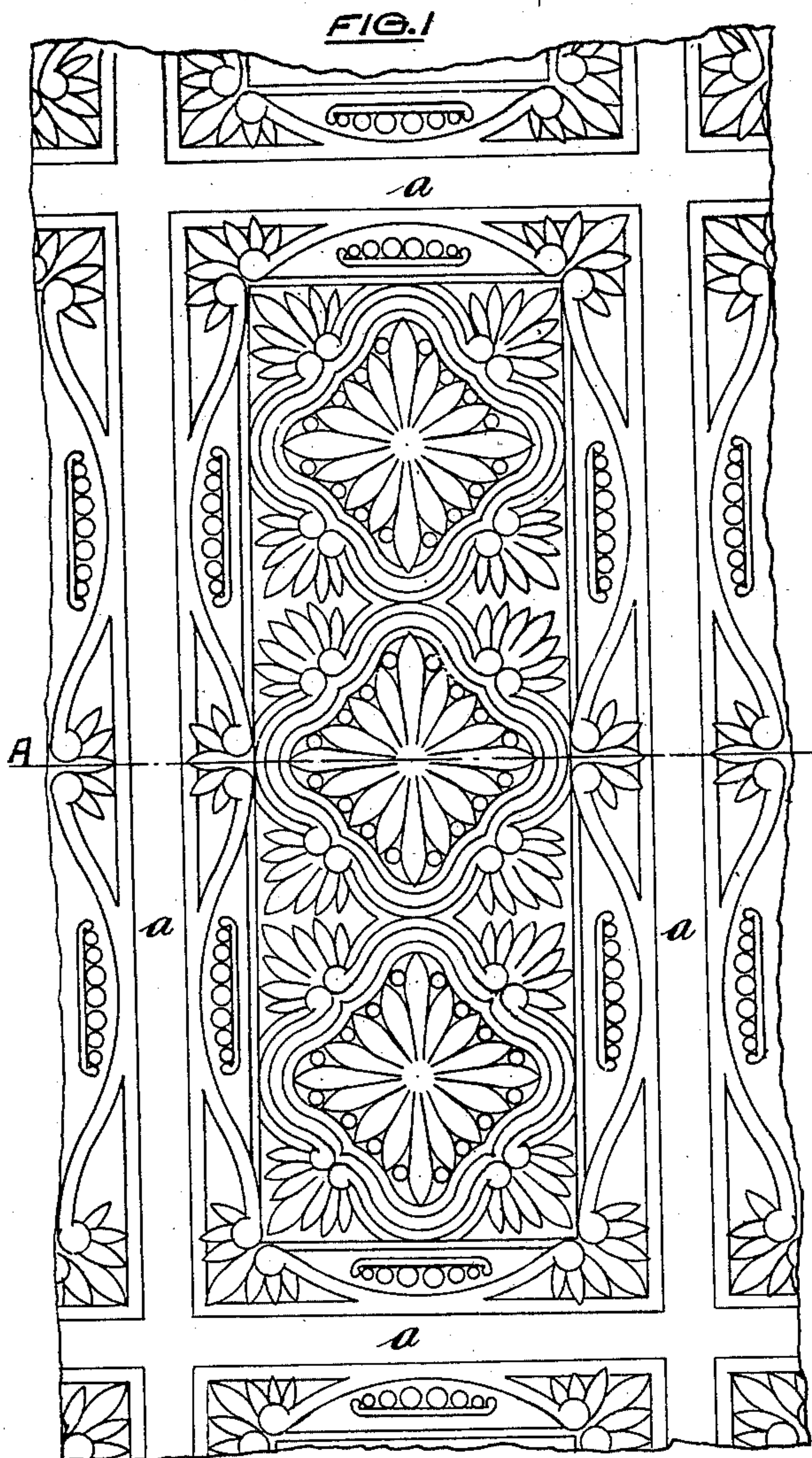


No. 737,707.

PATENTED SEPT. 1, 1903.

E. F. CHANCE.
GLASS FACING TILE, &c.
APPLICATION FILED APR. 22, 1902.

NO MODEL.



WITNESSES.
Chas. Waldron
Adeline Braine Gleason

INVENTOR
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By *Richard A. [Signature]* ATTORNEYS

UNITED STATES PATENT OFFICE.

EDWARD FERGUSON CHANCE, OF NEAR BIRMINGHAM, ENGLAND.

GLASS FACING-TILE, &c.

SPECIFICATION forming part of Letters Patent No. 737,707, dated September 1, 1903.

Application filed April 22, 1902. Serial No. 104,147. (No model.)

To all whom it may concern:

Be it known that I, EDWARD FERGUSON CHANCE, a subject of the King of Great Britain and Ireland, and a resident of The Glass Works, near the city of Birmingham, England, have invented certain new and useful Improvements Relating to Glass Facing Tiles, Slabs, and the Like, (for which I have filed an application in Great Britain, No. 19,803, bearing date October 4, 1901,) of which the following is a specification.

This invention has for its object the production, in a convenient and expeditious manner, of opal or other glass facing tiles, slabs, and the like, adapted or arranged for ready and secure attachment to the walls or other parts to be faced or covered.

In the manufacture of glass facing-tiles in accordance with my invention I roll a mass of the opal or other glass, rendered sufficiently molten or plastic by heat in the ordinary manner, into a sheet having a figured or ornamental pattern imprinted in its front face or surface. The said figuring or ornamentation of the front face does not extend over the entire surface, but is effected (by a suitably-engraved roll or rolls) in divisions or sections, so that a border of plain glass is interposed between the adjacent sides of each section. Thus the finished sheet of glass will present the appearance of a number of ornamental tiles or slabs arranged closely together, but with a plain border on the four sides of each.

Referring to the accompanying sheet of explanatory drawings, Figure 1 is a plan showing the front face of a portion of a sheet of glass facing tiles or slabs as made in accordance with my invention. Fig. 2 is a sectional end view on the line A B, Fig. 1. Fig. 3 is a plan showing the reverse surface of the sheet with one treatment of such surface for insuring its effective grip on the cemented wall or the like to be faced or covered by the tiles. Fig. 4 is a sectional side view on the line C D, Fig. 3. Fig. 5 is a plan showing the front face of a small portion of my sheet, in which the plain borders are grooved to permit of the more ready separation or detachment of the tiles or slabs. Fig. 6 is a sectional side view on the line E F, Fig. 5.

By the provision of the border, as *a*, of

plain glass between each of the ornamental divisions the entire sheet can be readily and accurately cut through along such borders for the formation of a number of ornamental tiles or slabs of uniform size. Should there be any inaccuracy in the size of the patterned tiles, due to distortion in rolling or other causes, the said plain margins or borders around the same can be trimmed or squared to make allowance for such inaccuracy without impairing the symmetry of the ornamentation.

I sand-blast, imprint with a figured pattern, or otherwise roughen the reverse face or surface of the sheet in any ordinary manner, or I provide projections thereon to enable the tiles or slabs to obtain an effective hold upon the cemented wall or the like, which they are required to cover or face.

In the treatment of the reverse face or surface of the sheet, as illustrated at Figs. 3 and 4, a series of ribs or projections are produced during the rolling of the sheet upon the said surface. The section of the said ribs or surface is, as is shown at Fig. 4, similar to that of a buttress screw-thread, one face or surface, as *b*, of each rib being approximately at right angles to the sheet, while the other, as *c*, forms an inclined plane between the crown or ridge of the one rib and the root or base of the succeeding rib. When the tiles or slabs are employed to cover a vertical surface, they are placed so that, as shown at Fig. 4, the inclined surface of each rib is above its horizontal surface. The weight of the tile being therefore supported upon the horizontal surfaces of the ribs lateral displacement is effectually avoided. The reverse side of the sheet is preferably provided with plain or unribbed borders corresponding with the aforesaid plain borders on the front face of the sheet.

For the more ready separation or detachment of the several tiles or slabs making up a complete sheet I sometimes roll or form a narrow groove, as *d*, Figs. 5 and 6, along each plain border.

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

1. A rolled sheet of glass facing tiles or slabs having figured or ornamented divisions

of uniform size on its front face or surface, corresponding ribbed divisions on its reverse face and plain borders between the said divisions on both faces, the said borders running in straight lines respectively lengthwise and crosswise and from end to end and side to side of the sheet, substantially as set forth.

2. A rolled sheet of glass facing tiles or slabs having figured or ornamented divisions of uniform size on its front face or surface, corresponding ribbed divisions on its reverse face, and plain borders between the said di-

visions on both faces, the said borders running in straight lines respectively lengthwise and crosswise and from end to end and side to side of the sheet and having grooves extending throughout their full length, substantially as set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

EDWARD FERGUSON CHANCE.

Witnesses:

EDWARD MARKS,
HERBERT BOWKETT.