

(No Model.)

T. J. THOMPSON.

PROCESS OF CHIPPING OR CRYSTALIZING GLASS.

No. 405,283.

Patented June 18, 1889.

Fig. 2.

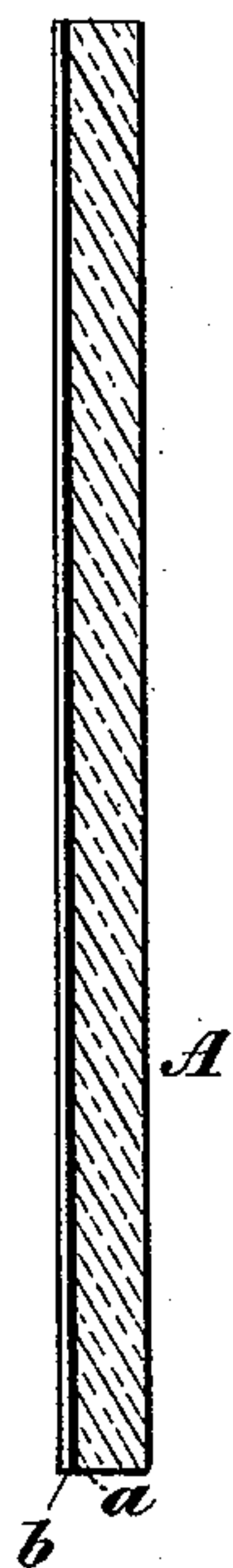


Fig. 1.

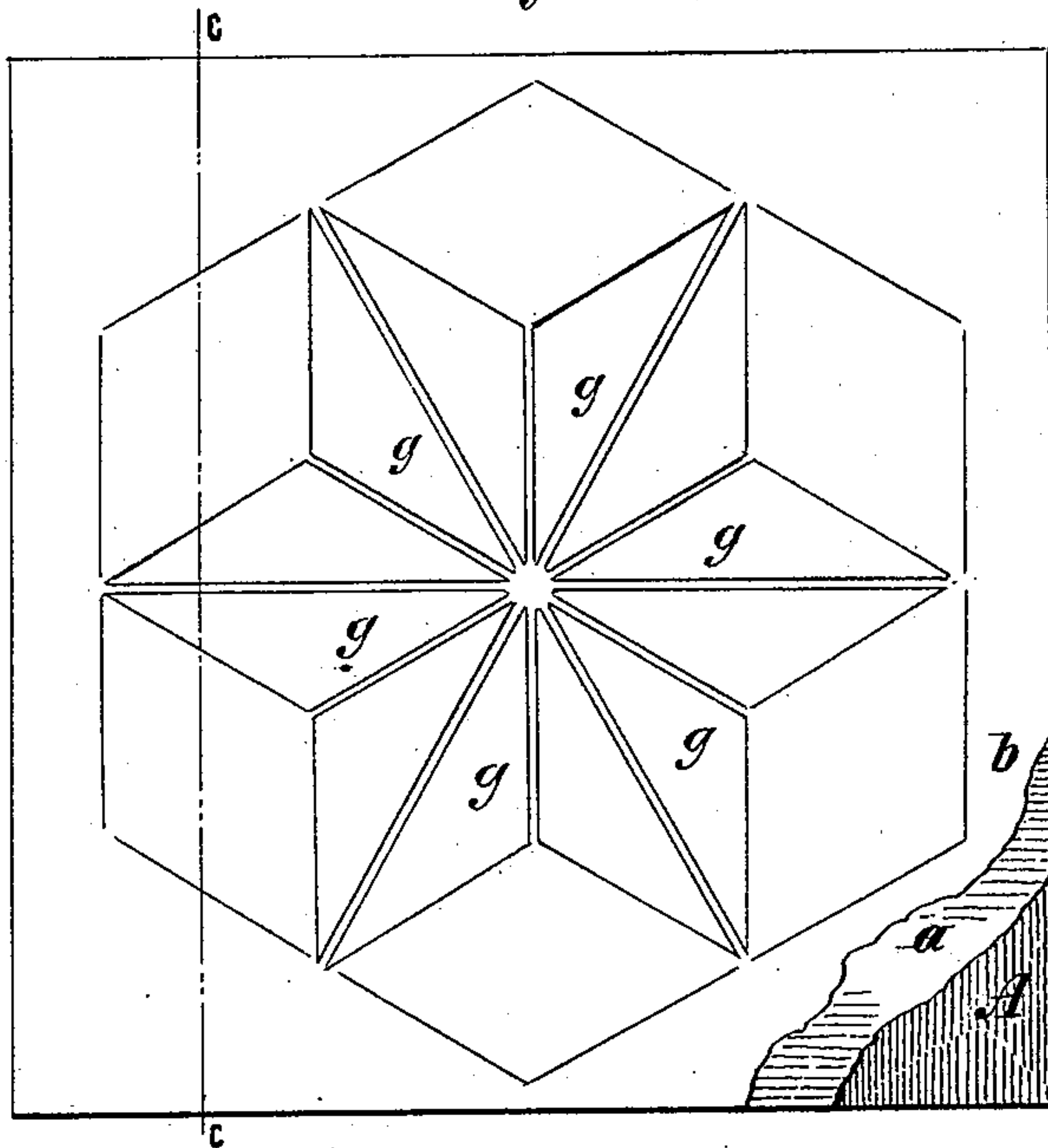


Fig. 3.

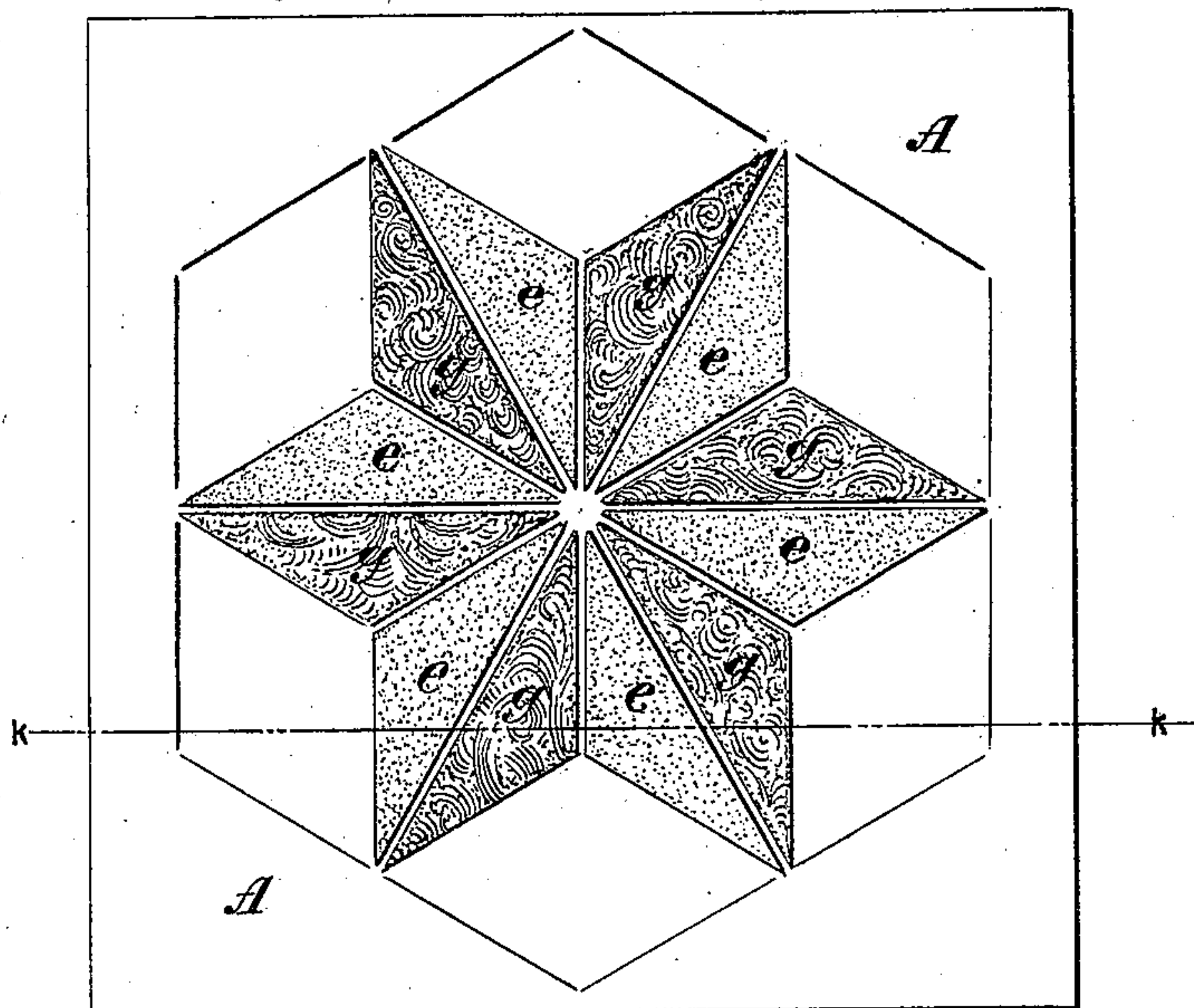


Fig. 4.

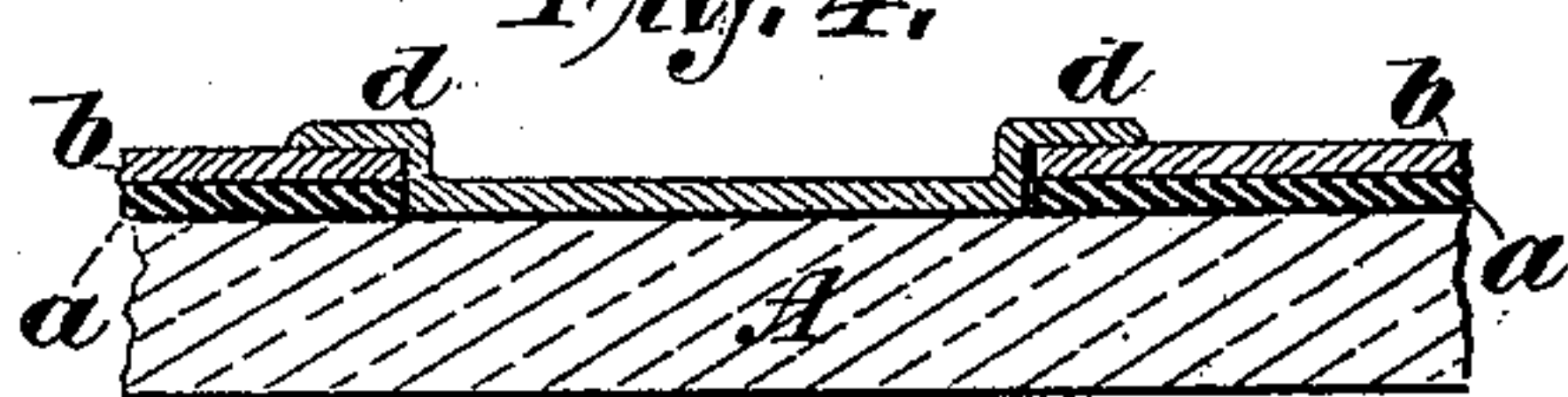
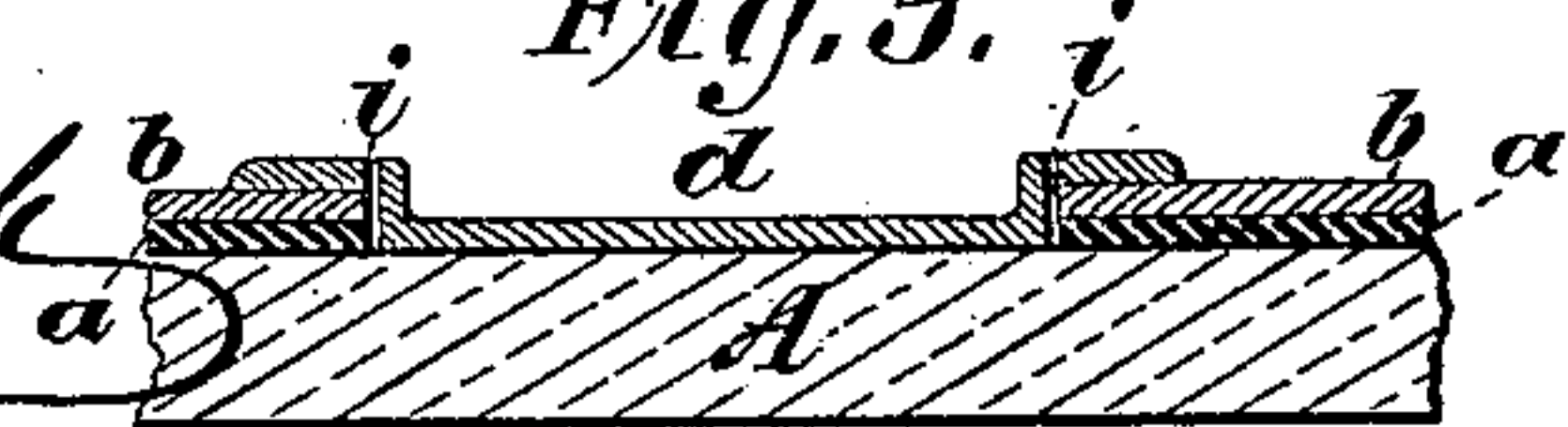


Fig. 5.



WITNESSES:

Gustave Dietrich

J. F. Bourne

INVENTOR

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his ATTORNEYS.

UNITED STATES PATENT OFFICE.

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PROCESS OF CHIPPING OR CRYSTALLIZING GLASS.

SPECIFICATION forming part of Letters Patent No. 405,283, dated June 18, 1889.

Application filed January 26, 1889. Serial No. 297,597. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. THOMPSON, a resident of Brooklyn, Kings county, New York, have invented a new and Improved Process of Preparing Glass for Chipping, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof, in which—

Figure 1 is a face view of a sheet of glass having part of the coatings applied by which my process is carried out. Fig. 2 is an enlarged section on the line *c c*, Fig. 1. Fig. 3 is a face view of a sheet of glass decorated according to my invention, and Figs. 4 and 5 are enlarged detail views.

In carrying out my process I first cover the part of the glass *A* to be decorated with a layer of asphaltum *a* or analogous adhesive matter, and on this I place a covering sheet *b*, of tin-foil, paper, or the like. A mere covering of paint will answer the purpose. The desired pattern or design is next laid out on this covering and the covering is cut out in the desired outline with a sharp instrument. The parts of the covering between the cuttings where the glass is to be chipped are now removed; or, if desired, the covering *a b* may at once apply only to the part of the glass which is not to be chipped. A layer *d*, of glue or other contracting substance or material, is next spread over the glass so exposed and may also extend over the covering *a b*, as in Fig. 4. If the chipping process were now to be carried out in the usual manner, the glue would chip pieces of glass off beneath the covering *a b*. To avoid this I cut through the glue with a sharp knife along the margin of the

space to be chipped, as at *i*, Fig. 5, and roll or strip off the glue while in a jellied state from the parts not to be chipped; but I do not cut any crease into the glass itself. The outline of the design or pattern being thus cut through the glue, the chipping may be proceeded with by subjecting the glass and its sharply-defined glue cover to heat in the usual manner. If any part or parts *e* of the glass are to be treated with acid or sand blast, this can be done either before or after the chipping process by first removing the covering *a b*, where desired, and then applying the acid or sand blast. By my improved process I am enabled to produce chipped glass in a simple and effective manner and without the glass at the sides of the design to be chipped being affected by the chipping process.

I do not claim to have invented the process of preparing glass for chipping, which consists in applying glue to the glass where the same is to be chipped, as shown in Patent No. 63,328.

Having now described my invention, what I claim is—

The process of preparing glass for chipping, which consists in covering the glass where the same is not to be chipped with a covering of paint or varnish, in then covering the glass where it is to be chipped with a layer of glue, and in then cutting through the glue along the edge of the pattern to be chipped, as specified.

THOS. J. THOMPSON.

Witnesses:

GEO. HIERO,
JOSEPH CONNER.