

United States Patent Office.

C. C. STREMME, OF AUSTIN, TEXAS.

Letters Patent No. 63,328, dated March 26, 1867.

IMPROVEMENT IN VITREOGRAPHY.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, C. C. STREMME, of the city of Austin, in the county of Travis, in the State of Texas, have invented a New Mode of Vitreography, and do hereby declare that the following is a full and exact description thereof.

The nature of my invention consists in applying to the ground surface of glass or other similar material, a warm solution of glue or other sticky matter, such as paste, mucilage, white of eggs, &c., which, in the process of drying and hardening, contracts, and thus detaches and brings away, when removed, particles from the surface of the glass where applied, leaving the part which is covered to look like ice or frozen snow, thus producing ornamental figures or designs of any description desired upon glass.

I proceed now to describe the modes of application to produce this effect. I will suppose it to be a pane of window glass which is to be ornamented, which will answer for every other case as well. After the desired figure or ornament is designed on paper, the pane may be placed over it, ground side upwards, and the lines of the figure traced on it with a pencil. Then a coat of varnish is applied to the whole surface of the glass, except that covered by or embraced within the figure, which is to be left free from the varnish, and when this (the varnish) is sufficiently dry and hard, the glue is to be applied with a brush freely over the figure or portion of glass not covered by the varnish, and may be done in a hasty manner without reference to the lines of the figure, the varnish being a perfect protection to the glass from the action of the glue, and leaving it to take effect only on the exposed glass embraced within the figure. The varnish, which adheres to the glass with less tenacity than the glue, always gives way when forced by the contraction of the glue without injury to the glass, preserving its surface from any change by the action of the glue; and if it should be necessary to make in any case a second application of glue, care must be taken to repair any injury which may have happened to the coat of varnish. The glue, by its own action in contracting, springs off with the detached particles of glass, and leaves then nothing to be done but to remove the varnish by dissolving fluids. The mode here described may be simplified to a great extent by using patterns in applying the varnish, either in the manner of brushing through or printing on the glass the protecting varnish, which latter method would also be applicable in certain cases, even in transferring the glue, when the varnish would be dispensed with altogether. It will be understood that the figures produced may be either of the portions of the glass acted upon by the glue, or of the smooth ground surface of the glass, by causing the action of the glue upon every portion of it except the figure. It will be seen that this kind of vitreography may be advantageously applied to objects where brightness and lustre are most valued, as for instance on lamp globes and cylinders, on glass drops and hangings for girandoles, &c., to window panes designed for decoration or to screen from observation while at the same time admitting light. I am aware of the existence of ornamented glasses similar in general appearance and produced for the same purposes, but by modes essentially different from mine.

What I claim as my invention, is—

The mode of ornamenting glass as herein described, by the application of glue or similar adhesive and contracting matter, and in this manner produce models for casting all and every kind of ornamental glass and glass ware, and for all of which I pray that Letters Patent may be granted me.

C. C. STREMME.

Witnesses:

W. B. CAFFER,
JOHN HAMILTON.