

UNITED STATES PATENT OFFICE.

HENRY LOEWENBERG, OF NEW YORK, N. Y.

IMPROVED FABRIC FOR HATS, BONNETS, &c.

Specification forming part of Letters Patent No. 46,568, dated February 28, 1865.

To all whom it may concern:

Be it known that I, HENRY LOEWENBERG, of the city, county, and State of New York, have invented a new and useful Fabric and Process for Manufacturing Hats and Bonnets, Laces, Braidings, Trimmings, &c.; and I do hereby declare that the following is a full and exact description thereof.

This invention consists in stiffening canton-flannel or other suitable woven cloth with liquid siliceous mixed with coloring-matters for the purpose of producing, with a suitable die or dies and by the application of pressure, hats, bonnets, and other similar materials of various appearance. The cloth is saturated in said composition capable of taking up the liquid siliceous or size mixed with coloring-matter, and both the dyeing and stiffening processes are produced at the same time, as the composition may be made so fluid as to uniform both color and stiffness in the most speedy manner. After it has been thoroughly saturated I subject it to the action of a die or dies placed in a suitable press, and by the application of pressure the so-prepared cloth is rendered elastic, and

will form in the die to produce the desired shape.

It is obvious that by engraving or otherwise preparing the die or dies in a suitable manner any desirable appearance may be given to the surface of the fabric; also, the surface may be glazed with a varnish either before or after pressure.

What I claim as new is—

The use of canton-flannel or other textile material treated with the composition of liquid siliceous or size mixed with coloring-matter for the purpose of dyeing and stiffening the cloth at the same time, and subjecting to the action of a die or dies, substantially as herein described, for the purpose of producing hats, bonnets, &c., with any desired surface, which may be glazed with a varnish either before or after pressure, as set forth.

HENRY LOEWENBERG.

Witnesses:

E. GAFFARD,
ALEX. OSTRANDER,
S. LOEWENBERG.