

UNITED STATES PATENT OFFICE.

CHARLES JOSEPH LEROUX AND JULES HENRI FISCHBACH, OF PARIS, FRANCE

METHOD OF COATING METALLIC SHEETS.

SPECIFICATION forming part of Letters Patent No. 500,237, dated June 27, 1893.

Application filed October 19, 1888. Serial No. 288,586. (No specimens.)

To all whom it may concern:

Be it known that we, CHARLES JOSEPH LEROUX and JULES HENRI FISCHBACH, both of the city of Paris, in the Republic of France, have invented a certain new and Improved Method of Coating Metallic Sheets, of which the following is a specification.

There have been many efforts to paint metallic sheets, but they have been only partially successful. The failure has been largely due to a want of firmness in the coating. Our process produces a firm coating which will endure all variations of atmospheric conditions, and will serve well exposed to the weather. We first paste a woven fabric of any convenient quality on the metal by means of rye paste, and after allowing it to dry, wash it with spirits of turpentine, and it is ready to receive the paint. The colors employed are ground in spirits of turpentine with oil varnish. The first coat of paint is then applied, and it is dried in a kiln, having a temperature which may vary from 120° to 212° Fahrenheit, as shall be determined by trial. Any succeeding coats are applied in the same manner, and each followed by a similar treatment in a kiln. When sufficiently painted, a final coat of varnish is applied, and this similarly dried in a kiln. We can similarly prepare the metallic sheets with double cloth.

We prefer to mix a small quantity of glue (*colle de Flandre*) with the rye paste for dry uses; but for use where the metal sheets are to be exposed to moisture, we prefer to mix a small quantity of white wax, linseed oil and spirits of turpentine, well worked together.

The cloth or woven fabric gives an increase of strength, which is important when the metal is very thin. We in some cases apply

a coat of paint on the metal before applying the fabric. This will defend the metal against the moisture due to the gluing. Parts of the surface may be thus treated, or may be left untouched while others are finished with the fabric in place, and thus by judicious treatment we may by the aid of this invention decorate by forms in relief as well as by color.

This process may be applied in the decoration of exteriors or interiors of buildings. It may be worked to produce imitations of wood, of metal, and of various woven goods.

The process may be applied to sheets or plates of metal of all dimensions, and also for decorating parts thereof, as for the letters of signs. It is recommended for many uses by its solidity, its rapidity of application, its small cost and its permanence.

We claim as our invention—

1. The method of coating metal sheets with paint, which consists in cementing cloth thereto, washing the cloth coated sheets with spirits of turpentine, applying a coat of paint to the so washed cloth, and finally drying the so coated sheets, substantially as described.

2. The method of coating metal sheets with paint which consists in cementing cloth thereto, washing with spirits of turpentine, applying paint whose vehicle is composed of oil varnish and spirits of turpentine, and drying, substantially as described.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

CHARLES JOSEPH LEROUX.
JULES HENRI FISCHBACH.

Witnesses:

PAUL GIRALFO,
R. J. PRESTON.