

UNITED STATES PATENT OFFICE.

OTTO VON CORVIN, OF WASHINGTON, DISTRICT OF COLUMBIA.

MODE OF PRODUCING OBJECTS OF METAL ORNAMENTED WITH INCRUSTATIONS OF CELLULOID, RUBBER, HORN, PEARL, AND THE LIKE ON THEIR SURFACES.

SPECIFICATION forming part of Letters Patent No. 233,076, dated October 12, 1880.

Application filed November 13, 1879. Patented in Belgium November 3, 1879, in Germany March 4, 1879, and in France September 22, 1875.

To all whom it may concern:

Be it known that I, OTTO VON CORVIN, of Washington, District of Columbia, have invented a new and Improved Mode of Producing Objects of Metal Ornamented with Incrustations of Celluloid, Rubber, Horn, Pearl, and the like on their surface, of which the following is a specification.

My proceeding will be best explained by describing how I make, for instance, a metal table-top ornamented with incrustations either of another metal, mother-of-pearl, shell, glass, porcelain, enamel, stones of any kind, jet, amber, ivory, tortoise-shell, or any substitute or imitation of these or similar materials, whether made of india-rubber, gutta-percha, celluloid, or other material.

On a copper plate or any other metallized surface I trace the outlines of the pattern which is to be formed by incrustations or inlaid work. The pieces to be incrustated, consisting of any of the materials before referred to, are shaped by cutting, stamping, filing, sawing, or in any other suitable manner, according to the position and space they are severally to occupy in the design. This done, that surface of each piece which is intended to appear in the finished work is pasted, by means of varnish or other appropriate adhesive stuff, to the bed-plate, on which the pattern has already been outlined, each, of course, in that place which it is to occupy in the design. The surface of this plate forming the base, on which the pieces to be incrustated are now pasted, and of which the back is to be seen, is now prepared in the manner known to every galvanoplast, so as to secure a metallic deposit on the pieces. When the plate is thus prepared it is immersed in a solution of sulphate of copper, or whatever other appropriate metallic solution is desired, and, after being attached to the positive pole of a galvanic battery, the metal contained in the solution will be deposited and spread over the whole prepared plate, and cover and envelop all the pasted pieces.

When the metallic deposit has acquired the desired thickness it is detached from the base-plate, the varnish or glue easily giving way,

and, turning it over, I find a surface exactly corresponding to the base-plate, but in which all the pasted pieces forming the pattern or design are inlaid in such an exact and nice manner as it is impossible to do by any manner or process applied heretofore. This inlaid surface of a table-top may now be still more ornamented by engraving, gilding, silver-plating, or in any manner desired.

Letters Patent for this my invention have been granted to me already in France, Germany, and Belgium.

By like process may be made tablets, panels for rooms, furniture, &c., covers of albums or books, boxes, &c., and articles of any shape and kind; and now,

Having described and illustrated the practical application of my invention, so as to enable any person skilled in the art to use the same, I claim as my invention and discovery—

1. The process of pasting or sticking of the several pieces intended for the incrustation, inlaying, or ornamentation of the surface of the article to be produced, by their obverse face, upon a base, bed, or ground plate, superficially the reverse of the surface to be ornamented, in the manner above indicated, or any equivalent manner, substantially as and for the purpose above described.

2. The process of metallizing the reverse, the back, and edges of the pieces to be inlaid, incrustated upon, or sunken into the surface of the article to be produced, substantially as and for the purpose above described, or so that a galvanic deposit of any desired metal may be made thereon closely, minutely, and perfectly adherent thereto, thereby forming, after detachment of the bed-plate, the obverse face of such article with a perfect surface, inlaid, incrustated, or ornamented, as desired.

3. The process for production of metallic objects with incrustations on the surface, substantially as above described.

Leipsic, October 20, 1879.

OTTO VON CORVIN.

Witnesses:

KARL GREAVIN,
S. POURTALES.