

UNITED STATES PATENT OFFICE.

CHARLES S. LOCKWOOD, OF ALBANY, NEW YORK, ASSIGNOR TO THE
BONSILATE COMPANY, (LIMITED,) OF SAME PLACE.

ORNAMENTING OR APPLYING DESIGNS TO ARTICLES MADE OF PLASTIC MATERIAL.

SPECIFICATION forming part of Letters Patent No. 283,795, dated August 28, 1883.

Application filed September 8, 1882. (Specimens.)

To all whom it may concern:

Be it known that I, CHARLES S. LOCKWOOD, of Albany, in the county of Albany and State of New York, have invented a new and useful Improvement in Methods of Ornamenting or Applying Designs to Articles Made of Plastic Material, of which the following is a specification.

The invention relates to an improved method of ornamenting or applying designs to articles made of plastic materials.

It consists, essentially, in preparing a design of a suitable size and of appropriate material, which is introduced into the mold or die during the fabrication of the article and made to form a part of the article itself. A portion of the material out of which the article is formed is first introduced into the mold or die. The design is then compressed upon the material that has been so introduced, and a sufficient quantity of the material to complete the article is introduced to cover the design. The material that is employed is wholly or in part transparent, so that the design can be seen after the article is compressed.

The details of the process are fully set forth hereinafter.

In practicing the invention I first prepare the design in any desired color and of any appropriate material. It may be printed upon paper, or stamped out of paper, metal, or other material, or otherwise prepared in any convenient way, as may be desired. The design will be of a size and configuration adapted to the article, the size and shape being such that when the article is finished the design will be completely embedded or covered by the plastic material. The material, which will be in powdered form, is first introduced in sufficient quantity to form a surface. The design is then introduced and the material to complete the article sifted upon the design, after which the heat and pressure are applied and the article completed in the customary manner. As has been stated, in order that the de-

sign may be seen, it is of course essential that the material which is used to cover the face of the design shall be sufficiently translucent to permit the design to be seen; but the material used for the back of the article may, if preferred, be opaque.

I have been in the habit of using the material known as "bonsilate;" but other suitable plastic materials may be employed with good results.

The piece bearing the design may be ornamented by printing upon both sides or otherwise; or two pieces may be introduced, if desired.

It is important, in practicing the invention, that a plastic material be selected which will not prejudicially affect or be affected by the ink or other material which is used in forming the design, and due care will also be taken to have the piece upon which the design is printed in a proper condition to be introduced into the mold.

What I claim as my invention, and desire to secure by Letters Patent, is—

The process hereinbefore described of forming ornamented articles of plastic material by compression in heated molds or dies, which consists in introducing a part of the plastic material in powdered form, then introducing the design, and finally adding sufficient material in powdered form to complete the article, the design being wholly covered, and the material being wholly or in part of such a character that it (the design) may be seen after the article has been completed, substantially as set forth.

In testimony that I claim the foregoing improvement in methods of ornamenting or applying designs, &c., as above described, I have hereunto set my hand this 21st day of June, 1882.

CHARLES S. LOCKWOOD.

Witnesses:

DANIEL MANNING,
ROBERT C. PRUYN.