United States Patent Office.

EDWARD S. JUDGE, OF BALTIMORE, MARYLAND.

Letters Patent No. 75,766, *dated March* 24, 1868.

MODE OF PRODUCING AN EXTRA SURFACE ON PAPIER-MACHE.

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, EDWARD S. JUDGE, of the city of Baltimore, in the county of Baltimore, State of Maryland, have invented a new and improved Mode of Producing an Extra Surface on Papier-Mache; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying specimen and mould.

The nature of my invention consists in applying a composition of matter on the surface of the mould before the papier-mache has been impressed therein, said composition adhering firmly to the papier-mache, which will produce a finer and more perfect surface on the impression than can be gotten by the papier-mache alone.

To enable others skilled in the art to make and use my invention, I proceed to describe the method of production and operation.

I construct my moulds of any of the known materials in general use for the purpose, of any form or design that may be desired.

In moulds made of wood or plaster of Paris, I first coat the surface with a composition of ground lead and oil, to prevent my surface-coating from adhering to the mould. If a delicate or very fine impression is to be obtained, ground lead, mixed with the plaster of Paris, of which the mould is made, in the proportion of one to three, will greatly enhance the efficiency of the mould and obviate the use of lead in the oil. I then, by means of a brush or other process, coat the surface of my mould with a composition of glue and whiting, or any materials suitable to the purpose, as may be calculated for in or out-door uses. I then apply a backing to my surface, of any of the ordinary compositions of papier-mache, in sufficient thickness for the purpose intended. After becoming sufficiently hard, it is then removed from the mould in the ordinary manner.

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

1. The application of lead and oil on the surface of the mould to prevent the adhesion of my surface-coating to the mould.

2. The admixture of ground lead in the plaster of Paris or composition of which the mould is made.

3. The obtaining of an extra surface on papier-mache, by coating the mould before the impression of the papier-mache therein with the aforesaid composition, or any other substantially the same, and which will produce the intended effect.

EDW'D S. JUDGE.

Witnesses:

ARTHUR I. JUDGE,

J. N. MACKENHEIMER.