

UNITED STATES PATENT OFFICE.

JOSEPH KINTZ, OF WEST MERIDEN, CONNECTICUT, ASSIGNOR TO HIMSELF
AND PARTRICK J. CLARK, OF SAME PLACE.

PROCESS FOR COATING METAL CASTINGS.

SPECIFICATION forming part of Letters Patent No. 224,925, dated February 24, 1880.

Application filed July 1, 1879.

To all whom it may concern:

Be it known that I, JOSEPH KINTZ, of West Meriden, in the county of New Haven and State of Connecticut, have invented a new and
5 Improved Process for Coating Metal Castings, of which the following is a specification.

My invention consists in an improved process for giving an ornamental surface or finish to iron castings, which process is as follows:
10 The casting is first rolled or tumbled in the usual manner, and polished on the portions of the surface that are to have a polish on the finished article, and then the casting is coated with copper or other metal by electroplating.
15 It is next subjected to acid-bath, for cleaning, and then buffed to render the surface smooth and bright. It is then boiled in a tin or other metallic solution. The solution will deposit evenly over the entire surface, and the polished
20 portions will be left brilliant, thereby forming a fine contrast with the unpolished surface and giving a fine finish and effect.

The polishing previous to the electroplating, and the buffing subsequent thereto, are

essential steps in the process, and by the boiling 25 in a metallic solution the desired color and a bright clean finish are obtained without further labor.

The process is especially applicable to small castings in iron; but I do not limit myself in 30 that respect, nor to any special metallic solution for giving the finishing color.

I am aware that buffing, polishing, and plating are not new; but

What I do claim as new, and of my inven- 35 tion, is—

In the process of polishing and plating metals, a sub-process that consists in dipping the polished and plated metal in an acid mixture to brighten the ornamental part, then 40 buffing the plain surface, and finally boiling it in a metallic solution to produce a lively color.

JOSEPH KINTZ.

Witnesses:

WILBUR F. DAVIS,
CHARLES W. MANN.