

United States Patent Office.

LANSING DOCKSTADER, OF WEST MERIDEN, CONNECTICUT, ASSIGNOR TO
BRADLEY AND HUBBARD, OF SAME PLACE.

Letters Patent No. 102,378, dated April 26, 1870.

IMPROVEMENT IN COATING AND BRONZING IRON.

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, LANSING DOCKSTADER, of West Meriden, in the county of New Haven and State of Connecticut, have invented a new Process for Coating Metals; and I do hereby declare the following to be a full, clear, and exact description of the same.

This invention relate to an improvement in coating iron, the object being to produce a gilt or golden surface, designed for parts of gas-fixtures and many other articles made from iron.

Heretofore, to produce the golden surface on iron, it has been required to gilt or electro-plate the surface with gold or bronze, or use some other metal than iron for the parts to be gilt, thus adding greatly to the expense of the articles where gilt work is combined.

My invention consists in coating the previously-polished surface of iron with copper by placing it in a bath or solution of copper in the usual manner, then heating and lacquering the article while hot with a composition of gums, pigments, or coloring materials dissolved in alcohol, repeating the operation until the desired color is produced.

I first take the iron and finish or polish the surface or parts to be gilt, and coat with copper in the usual

manner of coating other iron articles. I then heat the article, by placing it in an oven or by any suitable device, sufficiently to dry the lacquer and without danger of ignition, and coat the surface with a lacquer prepared from gums, pigments, and coloring materials dissolved in alcohol. The lacquer dries quickly, and the operation is repeated until the desired color is obtained, the heat turning the lacquered surface to a golden or gilt yellow, and producing a surface not easily tarnished, more durable even than gilt, and at a comparatively trifling cost.

I would here remark that, while I prefer to heat the iron preparatory to lacquering, a very satisfactory result is attained by lacquering first and baking afterward.

I do not claim surfacing cast-iron articles by show coating them with a thin electro deposit and varnishing the same; but

I do claim the process herein described for bronzing iron, the same consisting in coating the iron with a surface of copper, and then applying lacquer or varnish by means of heat, as described.

LANSING DOCKSTADER.

Witnesses:

RATCLIFFE HICKS,
CHAS. F. LINSLEY.