

UNITED STATES PATENT OFFICE.

NATHANIEL A. BATCHELOR, OF NEW YORK, N. Y.

MODE OF ORNAMENTING METALS.

Specification forming part of Letters Patent No. 41,132, dated January 5, 1864.

To all whom it may concern:

Be it known that I, NATHANIEL A. BATCHELOR, of the city, county, and State of New York, have invented a new and Improved Mode of Ornamenting Iron and other Metal Work; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention consists in the ornamentation of cast-iron or other metal by sticking to its surface with any suitable adhesive material plates or thin pieces of another metal of any form or design, then japanning, and afterward rubbing down and polishing in such manner as to leave exposed the surfaces of the said thin plates or pieces, which may then be further ornamented by engraving, chasing, or other means; or the said thin plates or pieces may be engraved or chased before application to the iron or other metal to be ornamented.

The invention is more particularly intended to be applied to the ornamentation of articles of cast-iron—such as clock-faces, fire-places, fenders, and other articles of household furniture—and the metal which I propose generally to use for ornamentation is pure tin, which possesses the advantages of producing a brilliant contrast with the dark color of the japan, of not readily tarnishing, of being very easily bent to adapt it to curved or angular surfaces, and of its not being costly. Brass or other alloys might be used, or silver; but the latter

would be too expensive for the profuse ornamentation of articles of considerable size.

The metal used for ornamentation is rolled or otherwise formed into thin sheets, and the pieces to form the ornaments may be cut out by punches of suitable design. The adhesive material which my experiments have led me to suppose the best for sticking the ornamenting metal to the iron or other body metal is a solution of glue in dilute alcohol; but they may be stuck on with the same japan which I use for coating the other parts of the iron. This is the japan ordinarily used in the japanning trade. When the metal ornaments have been stuck on I apply the japan in the manner practiced by japanning over the whole of the ornaments, as well as over the portions of the iron or body metal uncovered by the ornamented metal, but apply it thickest over the uncovered portion, and after subjecting it to the usual baking process rub it down and polish it with pumice-stone, tripoli, or other substance of similar nature.

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

The cementing of plate or sheet metal ornaments to the article to be japanned, and then applying the japan, as described.

NATHANIEL A. BATCHELOR.

Witnesses:

M. M. LIVINGSTON,
C. W. COWTAN.