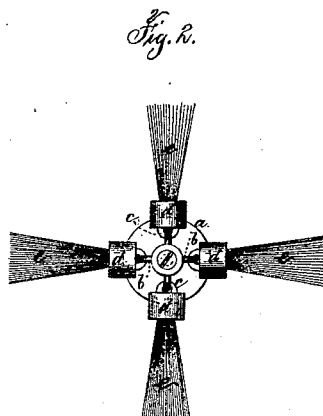
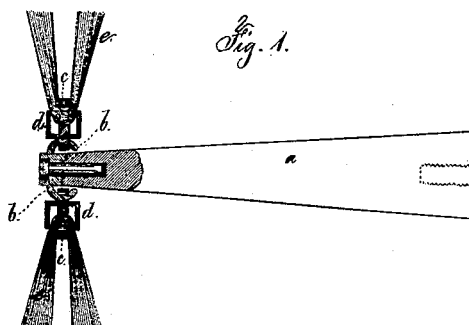


J. ROGERS.  
FINISHING THE SURFACE OF PLATED GOODS.  
No. 108,940. Patented Nov. 1, 1870.



*Witnesses,*

*Chas. H. Smith*  
*Geo. A. Walker.*

*J. Rogers*  
*per Lemuel W. Serrell* atty.

# United States Patent Office.

JOHN ROGERS, OF NEWARK, NEW JERSEY, ASSIGNOR TO LIPPIATT SILVER PLATE AND ENGRAVING COMPANY, OF NEW YORK CITY.

Letters Patent No. 108,940, dated November 1, 1870.

## IMPROVEMENT IN FINISHING THE SURFACES OF PLATED GOODS.

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, JOHN ROGERS, of Newark, in the county of Essex and State of New Jersey, have invented and made an Improvement in Finishing the Surfaces of Plated Goods; and the following is declared to be a correct description thereof.

Silver-ware has heretofore been frosted by the action of acid upon the surface of the silver; this mode, however, cannot be adopted upon plated goods, because if the acid was applied to the plating, the same would be removed or injured, and if the pewter, white metal, German silver, or other alloy of which the bodies of articles are made, was subjected to an acid treatment, the subsequent plating would not have the required frosted appearance.

My invention consists in subjecting the article to be plated to a stippling operation under a centrifugal wire brush, and then plating the article, whereby a frosted appearance of great beauty is obtained at a small cost, and the objectionable look which silver-plated ware generally has in consequence of the undulating burnished surface is done away with. The surface can be brightened after being plated by a second use of the centrifugal wire brushes.

In the drawing—

Figure 1 is a sectional view of the centrifugal brushes, and

Figure 2 is an elevation of the same.

The conical spindle *a* may be screwed upon the mandrel of a lathe, and at its end two or more loops, *b b*, are formed, receiving the links *c* of the wire brushes.

Each brush is made of a bunch of wires folded and slipped through the link, and a cap, *d*, holds them in place.

The wires *e* of the brushes are to be of greater or lesser size, according to the stippling action required. I prefer to use fine brass wire.

The cup, bowl, pitcher, or other article to be silver-plated is subjected to the action of the brushes *e*, as they are revolved with great rapidity; hence the stippling action is performed in a short space of time, and the surface roughened to the desired extent.

The article is then plated with silver, gold, or other metal, in any desired manner, and if the surface of the plating is to be brightened, it is easily done by a similar revolving brush; but generally it will be best to use a brush of very fine wire for this brightening operation.

In cases where portions of the article are to be left smooth to form a figure, it may be done by applying a shield over the part while subjected to the action of the brushes, and this shield may be of sheet metal or other material.

I claim as my invention—

The method herein specified of finishing the surface of plated-ware, by the joint action of stippling and plating, substantially as set forth.

Signed this 25th day of August, A. D. 1870.

JOHN ROGERS.

Witnesses:

SAM. F. BIGELOW,  
E. P. MATTLEY.