

B. D. BEIDERHASE & C. WITTECK.

Devices for Producing Pearl-Finish on Metallic Surfaces.

No. 134,581.

Patented Jan. 7, 1873.

Fig. 1.

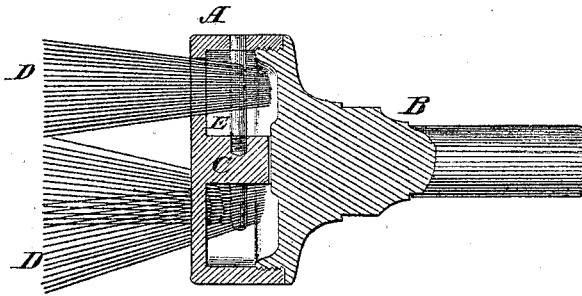
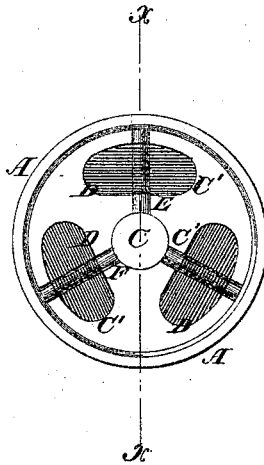


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

BERNHARD D. BEIDERHASE AND CHARLES WITTECK, OF NEW YORK, N. Y.

IMPROVEMENT IN DEVICES FOR PRODUCING PEARL-FINISH ON METALLIC SURFACES.

Specification forming part of Letters Patent No. 134,581, dated January 7, 1873.

## CASE A.

*To all whom it may concern:*

Be it known that we, BERNHARD D. BEIDERHASE and CHARLES WITTECK, of the city, county, and State of New York, have invented a new and useful Improvement in Device for Producing Pearl-Finish on Metallic Surfaces, of which the following is a specification.

The object of this invention is to provide means for producing what is known as "pearl-finish" on metallic surfaces; and it consists in a head with one or more projecting clusters of wire therein, the device being more especially designed for the inside of silver or other metallic vessels, but applicable to the outside also.

In the drawing, Figure 1 is a vertical section of Fig. 2 taken on the line *xx*, and Fig. 2 is a view of the reverse side of the head.

Similar letters of reference indicate corresponding parts.

A represents the head, which screws on the spindle B, which spindle is attached to the mandrel of a lathe. The head may be so constructed as to be attached directly to the mandrel. The rear side of the head is recessed out, as seen in Fig. 1, having a center, C. Through the face of the head are three (more or less) apertures, C'. D represents clusters of elastic wire, of any size and elasticity, suited to the purpose for which the device is to be used. These clusters D project from the face through the before-mentioned orifices, and are fastened by means of pins E, which pins pass from the outside of the head through the re-

cess into the center C, as seen in Fig. 1. The clusters of wire are doubled, and the doubled ends are inserted through the orifices into the recess, and then the pins E are inserted through the center of the doubled ends so as to securely hold each separate wire. When the clusters are thus placed the head is screwed onto the spindle, which fastens and keeps them in place.

In using the device the head is rapidly revolved in the lathe, and the wire points impart to the metallic surface brought in contact therewith a rough or broken appearance, known as "pearl-finish," which is highly ornamental.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. A device for producing what is known as satin or pearl finish to metallic surfaces, constructed substantially as shown and described.

2. The recessed head A, with the apertures C', pins E, and clusters of wire D, substantially as and for the purposes described.

3. The combination of the head A and wire clusters D, arranged, as described, with the spindle B, or with the mandrel of a lathe, substantially as set forth.

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Witnesses:

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