B. D. BEIDERHASE & C. WITTECK.

Device for Producing Satin-Finish on Metallic Surfaces.

No. 134,582. Patented Jan. 7, 1873.

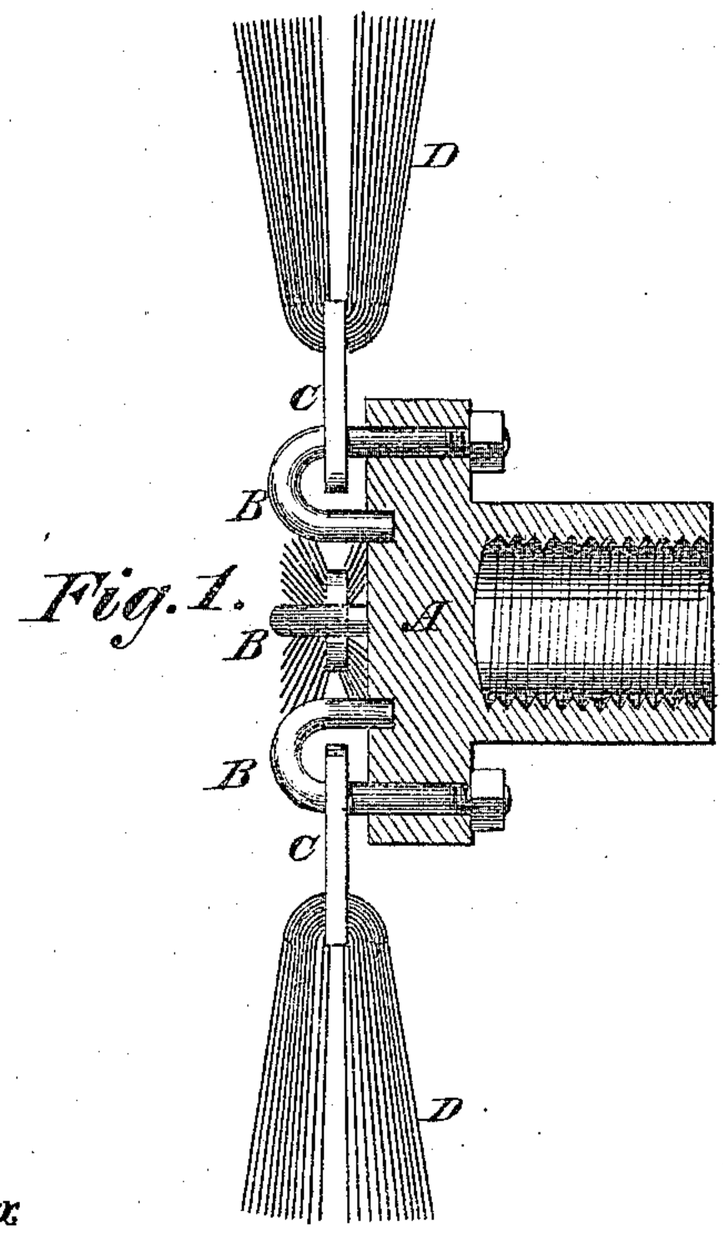

Fig. 1.

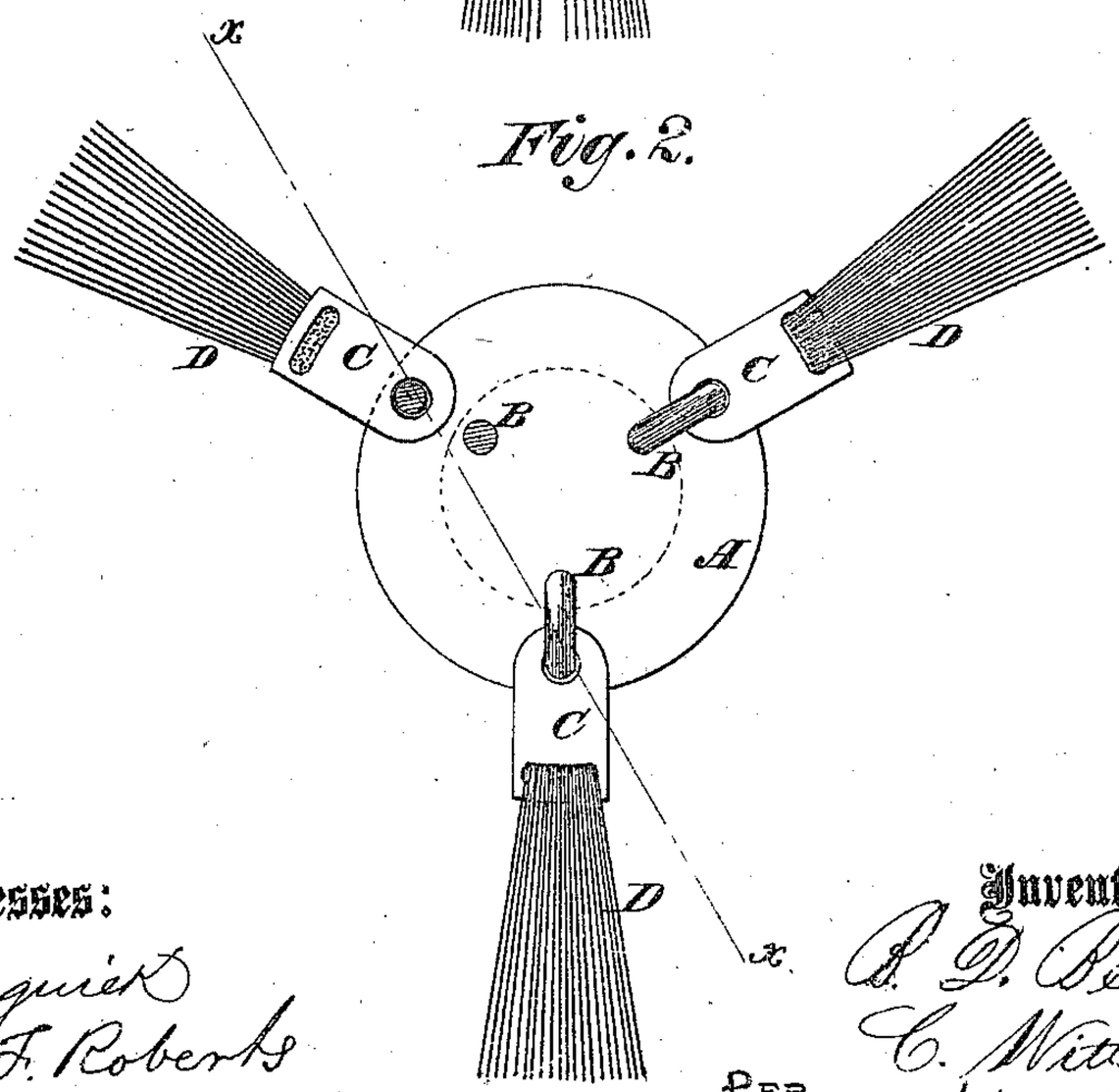

Fig. 2.

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UNITED STATES PATENT OFFICE.

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

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

Specification forming part of Letters Patent No. **134,582**, dated January 7, 1873.

CASE B.

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 Apparatus for Producing Satin-Finish on Metallic Surfaces, of which the following is a specification:

This invention relates to the finishing of metallic surfaces, whether the outside or inside surfaces of vessels or flat or irregularly-formed plates; and it consists in one or more clusters of wire connected with screw eyes or loops attached to a head which is screwed onto the end of a revolving mandrel, the said cluster of wire being connected with the said screw-eyes by means of loose plates in such a manner that when the head is rapidly revolved the clusters of wire will fly out radially by centrifugal force, as seen in the drawing, and present a series of metallic points, which, when in contact with a metallic surface, will make slight indentations therein and produce what is known as the "satin or pearl finish."

In the accompanying drawing, Figure 1 represents a vertical section of our device as when the same is in motion, the section being taken on the line *x x* of Fig. 2; and Fig 2 is a fan or front view of the same.

Similar letters of reference indicate corresponding parts.

A is the head, which is screwed onto the end of a mandrel of a lathe, or attached in any other suitable manner. B represents screw-eyes, staples, or loops, which are securely attached to the face of the head. C represents plates, which are loosely hung to these screw eyes or loops, as seen in the drawing. D are the clusters of wire, which are attached to the plate by means of slots or orifices in the plates, the wire clusters being inserted through the orifices and then doubled, as seen in Fig. 1. These clusters of wire may be of any required size or length, and never less in number. They are made of elastic wire, so that when a metallic surface is brought in contact with the flying ends the ends will pass, but leave minute indentations in the surface of the metal, which produces the desired result. This is known as the "satin or pearl finish," which is very beautiful, and produced at slight expense.

The apparatus may be applied to either the outside or the inside of vessels, as may be desired.

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

1. An apparatus or device for producing a "satin-finish" on metallic surfaces, constructed substantiallly as shown and described.

2. The head A, with one or more wire clusters, D, attached thereto, substantially as shown and described.

3. The eyes or loops B, plates C, clusters D, and head A, in combination with a lathe-mandrel, as and for the purposes described.

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