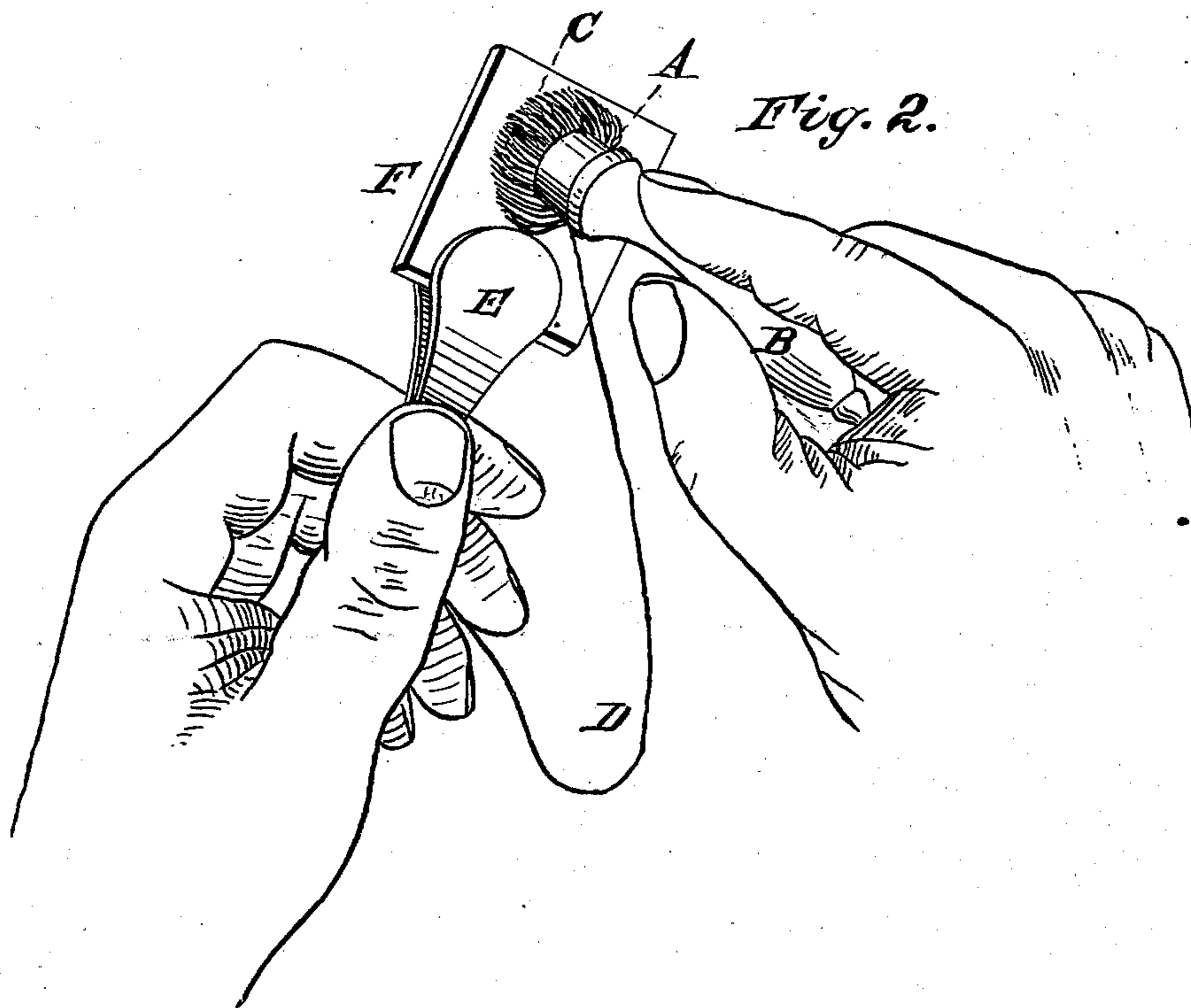
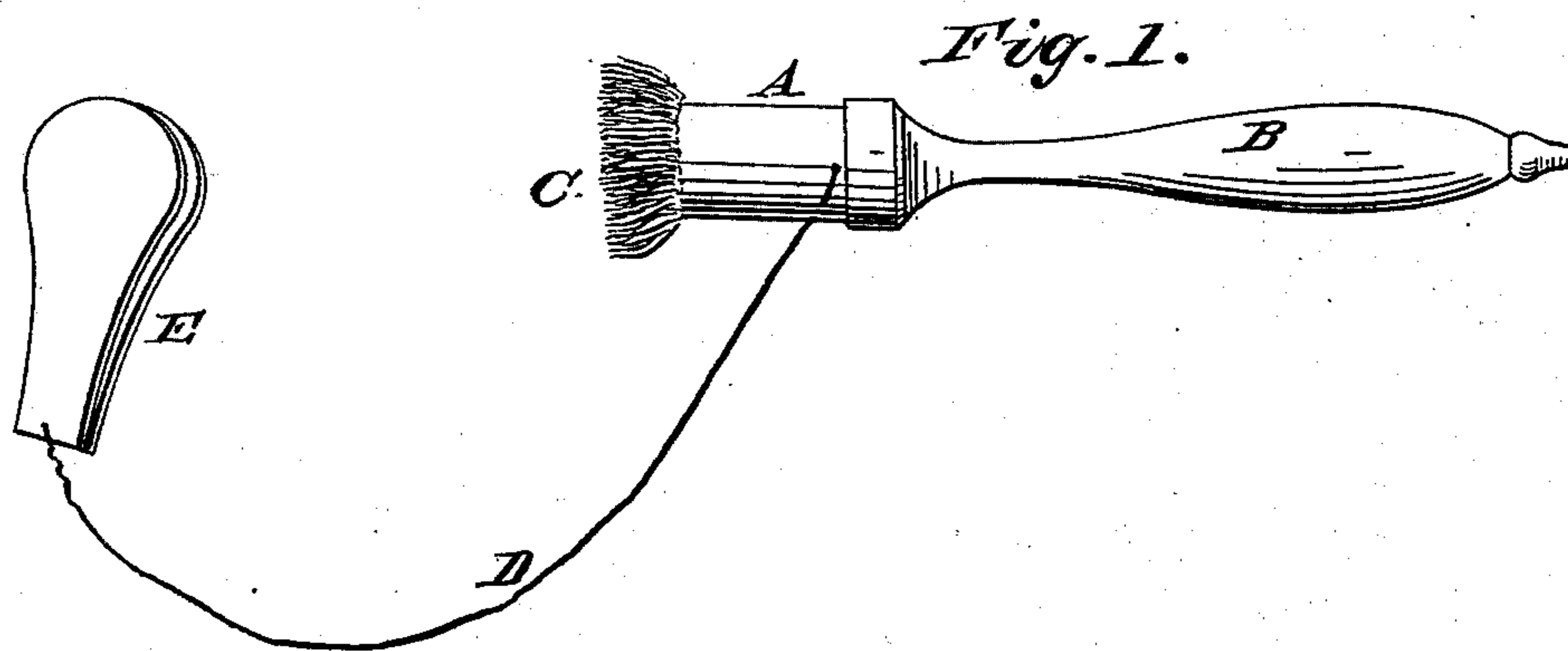


W. GATES.
Electro-Plating Apparatus.

No. 80,402..

Patented July 28, 1868.



Witnesses:
J. H. Shumway
A. J. Tibbitts

Inventor:
William Gates
By his Attorney,
John E. Earl

United States Patent Office.

WILLIAM GATES, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO HIMSELF
AND GEORGE W. HOMAN, OF THE SAME PLACE.

Letters Patent No. 80,402, dated July 28, 1868.

IMPROVED APPARATUS FOR ELECTRO-PLATING.

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, WILLIAM GATES, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Apparatus for Electro-Plating; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view of the instrument, and in

Figure 2 the manner of using.

The object of this invention is chiefly to perform electro-plated work, that is to say, to recoat the spots or parts which have been worn, but the articles themselves may be entirely plated by this instrument; and the invention consists in combining, within a zinc socket, a sponge or washer, and from the said socket communicating, to the article to be plated, a connection, to maintain the electric current.

In order to the clear understanding of my invention, I will fully describe the same as illustrated in the accompanying drawings.

A is a socket of zinc, fixed upon a handle, B, the said socket fitted with any fibrous material or sponge C, and from the said socket A extends a metallic wire, D, attached to a copper or suitable metallic holder, E. This completes the construction of the instrument. Its operation is as follows:

Dip or moisten the sponge C, so as to dampen the socket A, in any solution of silver, or whatever metal it is desired to plate with. Take the plate or thing to be plated, F, within the holder E, as seen in fig. 2, then, with the other hand, apply the sponge C, charged with the solution of proper metal, to the thing to be plated, and an electric current is at once created, and the metal plated in as thorough and perfect manner as could be done in the common battery, and by this simple instrument it will be readily seen that any spot or damaged surface of the plated material may be replated, and if upon a polished surface, rub the surface with the sponge while plating, then, when the surface is washed, it will be found to be polished or burnished as perfectly as was the original surface.

The same instrument may be used for cleaning plated ware, thereby, at a comparatively small cost, adding to the plating every time it is thus cleaned.

The same result will be attained by attaching the end of the wire D, (which is here represented as attached to the holder E,) to the article to be plated, but, for convenience, I prefer to attach it to the holder.

Having fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

As a new article of manufacture, the instrument, consisting of the zinc socket, with its sponge or brush C and connecting-wire D, with or without the holder E, so as to operate in the manner substantially as specified.

WM. GATES.

Witnesses:

A. J. TIEBITS,

J. H. SHUMWAY.