

H. W. WRIGHT.

Coating Metals.

No. 101,075.

Patented March 22, 1870.

Fig. 1

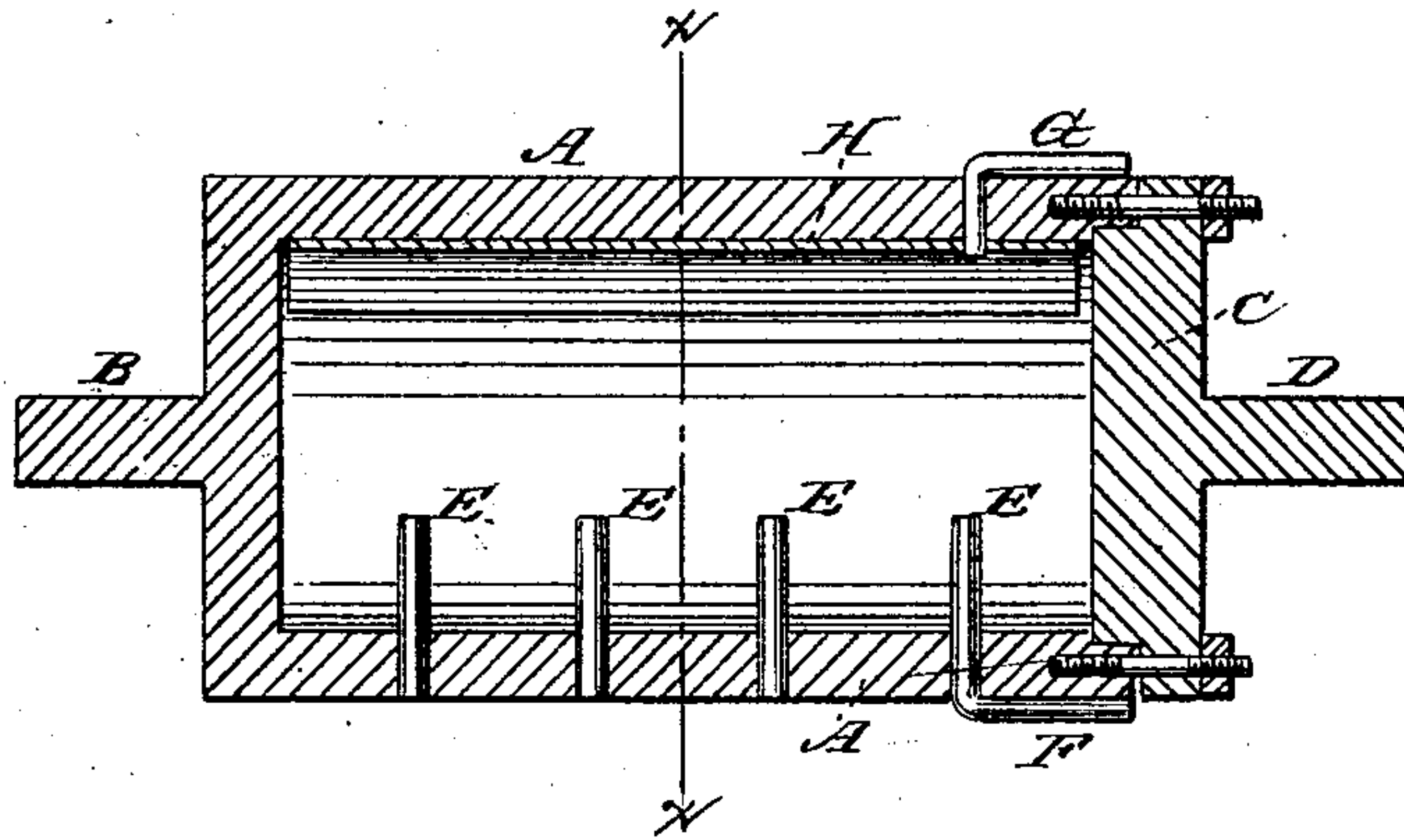
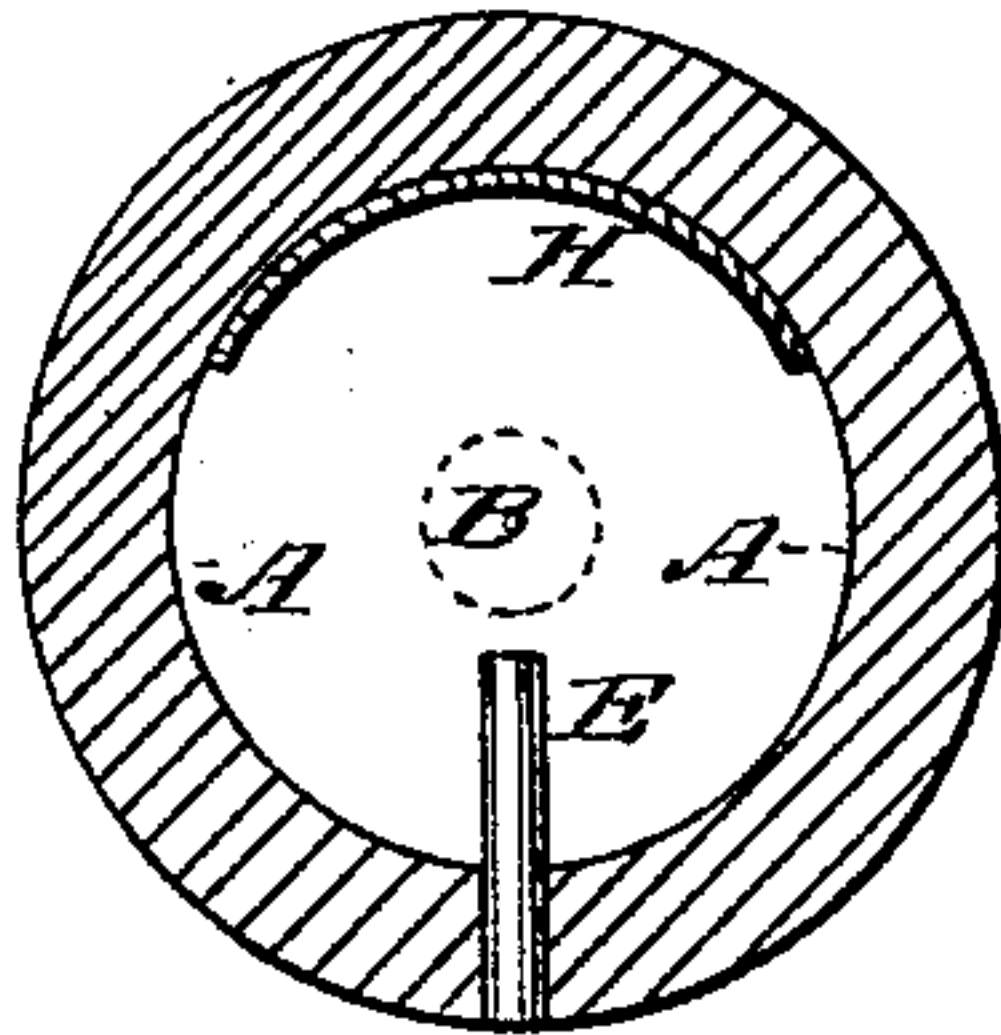


Fig. 2



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# United States Patent Office.

HOWELL W. WRIGHT, TAUNTON, MASSACHUSETTS.

Letters Patent No. 101,075, dated March 22, 1870.

## IMPROVEMENT IN ELECTROPLATING APPARATUS.

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, HOWELL W. WRIGHT, of Taunton, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Electroplating Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification, in which

Figure 1 is a detail sectional view of my improved apparatus.

Figure 2 is a detail cross-section of the same taken through the line  $x\ x$ , fig. 1.

My invention has for its object to furnish an improved apparatus for use in electroplating tacks, nails, screws, and other small articles with copper or other metal, which will enable the said articles to be quickly, conveniently, and thoroughly plated, in any desired quantity; and

It consists in the apparatus constructed and operating substantially as hereinafter more fully described.

A is the receiver, which may be made of wood, glass, earthenware, or other suitable material which is a non-conductor of electricity, and will be unaffected by the plating-solutions. The receiver A may be made cylindrical, as shown in the drawings, or of any other desired or convenient form.

One end of the receiver A is made close, and has a journal, B, attached to or formed solid upon its middle part.

The other end of the receiver A is provided with a close-fitting cover, C, which may be secured in place by bolts and nuts, and which has a journal, D, formed upon or attached to its middle part, as shown in fig. 1.

E is a number of points, fingers, or projections from the inner surface of the receiver A, which act as stirrers, to keep the tacks, nails, or other articles being plated, stirred up, so that they may all be plated in all their parts.

F G are copper wires, which pass through the sides of the receiver A.

One of the wires F G, as F, projects inward, so as to be immersed in the solution, and the inner end of the other wire, as G, is connected with the plate or ingot H, of copper or other metal being used, and which should be secured to the side of the receiver, so that it cannot get out of place or out of contact with the pole or wire G, and thus interrupt the plating. The receiver A may be revolved by any of the well-known means.

The connection or circuit-wires of the battery should be secured in such a position that the two wires F G at each revolution of the receiver A may come in contact with the ends of the circuit-wires of the battery, and thus complete or close the circuit, which is again instantly broken by the onward movement of the receiver, thus increasing the efficiency of said current.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. A non-conducting revolving receiver for receiving the solution and articles to be plated, substantially as herein shown and described, and for the purpose set forth.

2. The combination of the stirrers E, plate or ingot H, and conducting-wires or poles F G, with the non-conducting revolving cylinder A, substantially as herein shown and described, and for the purpose set forth.

3. Electroplating by means of a revolving receiver, in which the metal, solution, and articles to be plated are placed, and which, by its revolution, continuously opens and closes the circuit, substantially as herein shown and described, and for the purpose set forth.

The above specification of my invention signed by me this 4th day of February, 1870.

HOWELL W. WRIGHT.

Witnesses:

GEO. W. MABEE,

JAMES T. GRAHAM.