April 14, 1925.

1,533,805

E. C. OLIVER

ELECTROPLATING RACK

Filed Nov. 6, 1924

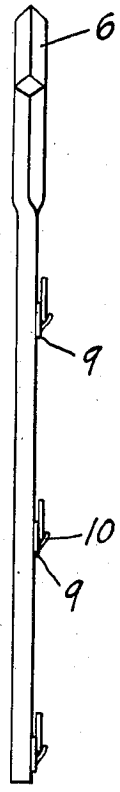


Fig. 2

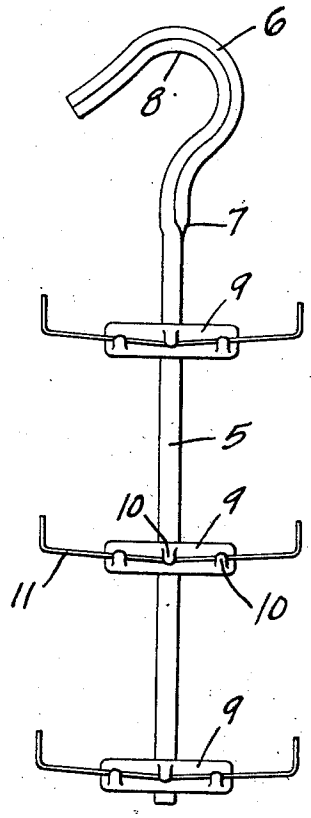


Fig. 1

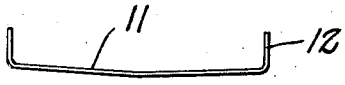


Fig. 3

INVENTOR
Edd C. Oliver
BY
Young & Harness
ATTORNEY

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UNITED STATES PATENT OFFICE.

EDD C. OLIVER, OF ADRIAN, MICHIGAN, ASSIGNOR TO PARKER RUST PROOF COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

ELECTROPLATING RACK.

Application filed November 6, 1924. Serial No. 748,253.

To all whom it may concern:

Be it known that I, EDD C. OLIVER, a citizen of the United States, and resident of the city of Adrian, county of Lenawee and State of Michigan, have invented certain new and useful Improvements in Electroplating Racks, of which the following is a specification, reference being had to the accompanying drawings.

Considerable difficulty in the construction of racks for the above purpose has heretofore been encountered for the reason that the hangers provided on the racks for suspending the work to be electro-plated become coated and the coating must from time to time be removed. The removal of this coating necessitates the rack being temporarily placed out of use and it is the primary object of my invention to provide a rack wherein the hangers are removable so that new hangers may be substituted for used ones, and the rack kept in continuous service.

It is a still further object to provide a rack, the vertical portion of which is of square formation so that the hanger supports may be accurately and rigidly secured thereto.

It is a still further object to twist the upper portion of the rack constituting the hook by which it is suspended, so that one of the sharp edges of the square will constitute the contacting surface thereon, with the result that a better electrical contact may be made by reason of the sharp edge cutting or penetrating any coating which may have accummulated upon the surface with which it contacts.

With the above, and other objects, my invention consists in the arrangement, combination and construction of the various parts of my improved device, as described in the specification, claimed in my claims and shown in the accompanying drawings, in which:

Fig. 1 is a front elevaion of my improved device.

Fig. 2 is a side elevation of the same.

Fig. 3 is a detail view showing one of the hangers utilized in my invention.

My improved construction consists of a square piece of conducting material having a vertical portion 5 and a hook portion 6, the stock being twisted as at 7, so that the sharp edge of one of the corners thereof will constitute the bearing surface in the hook as at 8.

Secured on the vertical portion 7 are a plurality of cross pieces 9, which may be soldered to the flat surface between the edges of the square.

The cross pieces 9 are provided with a plurality of punched out ears 10, one adjacent each end thereof and one at approximately the center thereof, the two outer ears extending in opposite directions to the central ear.

A plurality of hangers 11, which may be pieces of wire having their outer ends bent upwardly, as at 12, are secured, one to each of the cross pieces 9, by means of disposing them between the ears 10 in such a manner that the outer ears prevent movement thereof in one vertical direction and the central ear prevents movement thereof in the other vertical direction. Thus the hangers are held securely in place but may be easily and quickly removed and other like ones substituted when it is desirable to do so.

It is obvious that various changes may be made in the arrangement, combination and construction of the various parts of my improved device without departing from the spirit of my invention, and it is my intention to cover by my claims such changes as may be reasonably included within the scope thereof.

What I claim is:

1. A rack for use in electro-plating consisting of a vertically disposed member having laterally extending cross-pieces thereon, and hangers removably secured to said cross-pieces.

2. A rack for use in electro-plating consisting of a vertically disposed member having laterally extending cross-pieces thereon, said cross pieces having punched out ears thereon, some of which extend in one direction and others in another direction, a hanger removably secured by said ears to said cross-pieces.

3. A rack for use in electro-plating, consisting of a vertically disposed member having laterally extending cross piece thereon and hangers removably secured thereto, said vertical member being provided with flat surfaces at the securing points of said cross-pieces.

4. A rack for use in electro-plating con-

sisting of a vertically disposed member having laterally extending cross piece thereon and hangers removably secured thereto, said vertical member being formed of square stock and said cross pieces being secured to the flat portion between the edges of the square.

5. A rack for use in electro-plating consisting of a vertically disposed conducting member formed of square stock, said member being bent at one end to form a hook, the material in the hook portion being so positioned that one of the edges thereof will form the contacting surface when the rack is suspended from the hook, and hangers on the unbent portion of the member.

EDD C. OLIVER.