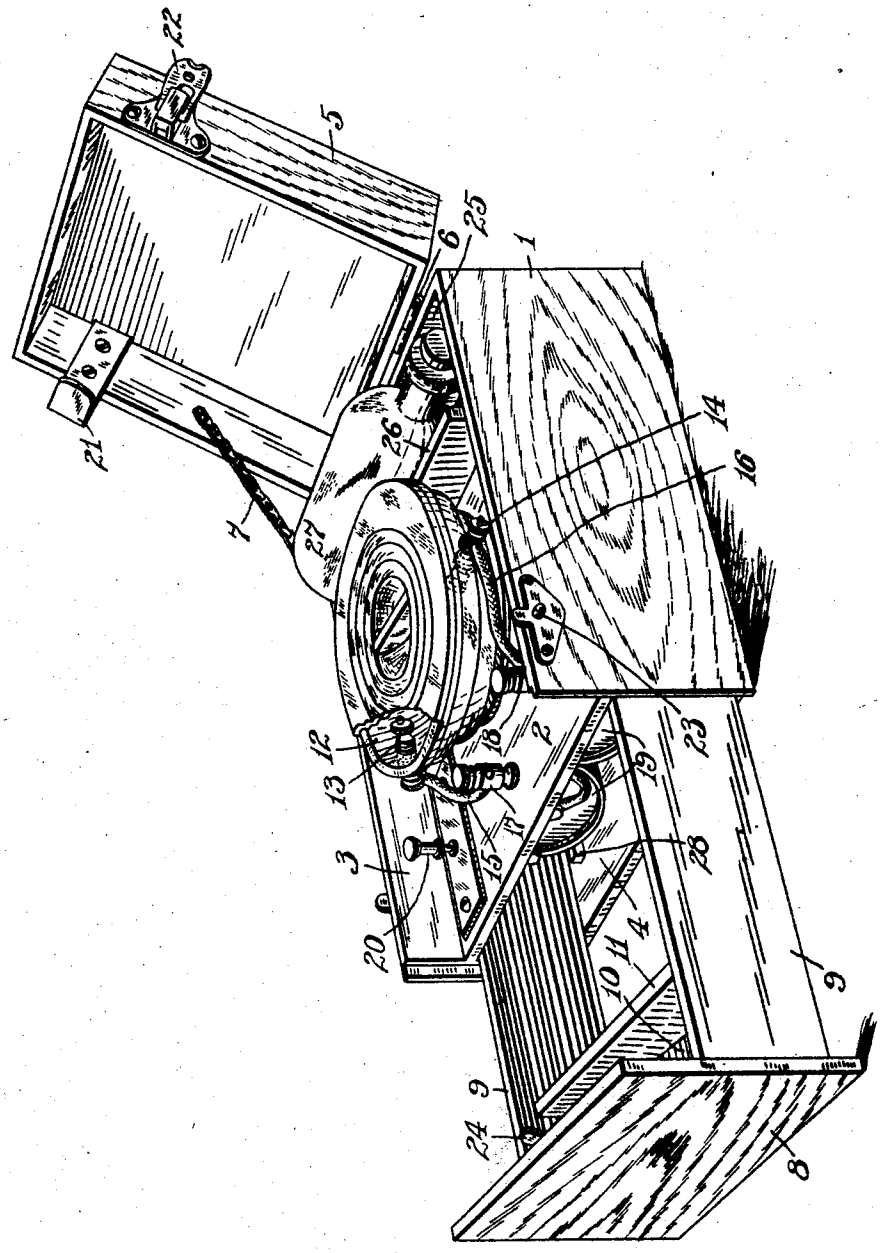
Oct. 13, 1925. 1,556,752

R. W. BLAKE

DENTIST'S PLATER

Filed Feb. 28, 1924



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Patented Oct. 13, 1925. 1,556,752

UNITED STATES PATENT OFFICE.

ROBERT W. BLAKE, OF INDIANAPOLIS, INDIANA.

DENTIST'S PLATER.

Application filed February 28, 1924. Serial No. 695,668.

To all whom it may concern:

Be it known that I, ROBERT W. BLAKE, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented a new and useful Dentist's Plater, of which the following is a specification.

My invention relates to improvements in electro-plating outfits particularly designed for use in electro-plating small objects. My invention is particularly adapted for use by dentists and others who desire to electro-plate small articles and at the same time desire to have a readily portable machine which may be used and after use may be closed and put out of the way.

For the purpose of disclosing my invention I have illustrated one embodiment thereof in the accompanying drawing, in which the figure is a perspective view of an apparatus embodying my invention.

In the structure illustrated I provide a container which is preferably in the form of a rectangular box 1 provided intermediate of its top and bottom with a shelf 2 which divides the box into a top compartment 3 and a bottom compartment 4. The box is provided with a hinged box-like cover 5 mounted on hinges 6 at the rear of the box, or casing 1, and held against dropping beyond a predetermined open position, by the chain or other latching mechanism 7. The front end 8 of the box is removable and to this end is secured a pair of slide members 9 telescoping the bottom compartment 4 and, mounted between these side members 9 at the front end thereof, is a pocket formed by a bottom board, or shelf 10, secured at the bottom of the front end of the slide members 9 and a vertically extending end member 11 secured between the slides 9, whereby the front member 8 and the member 11 form sides of an open topped pocket for the reception of tools.

The electro-plating container preferably consists of a glass bowl 12 having mounted thereon and extending therethrough, the electrode terminals 13 and 14 which are respectively provided on their inner ends with binding screws to receive the electrodes and on the outer ends with binding screws to permit the connection to the terminals of the respective conductors 15 and 16 leading to the binding posts 17 and 18 which are mounted on the shelf 2. One of the binding posts, 18, leads to one of the terminals of the batteries 19 mounted in the compartment 4 beneath the shelf, and the opposite post 17 leads through an ordinary snap switch 20 to the opposite terminal of these batteries. One or more batteries may be provided and where more than one battery is provided, the batteries, of course, are connected in series. The switch 20, when in a raised position, is adapted to close the circuit through the batteries to the electrodes, and in order to insure the opening of the circuit when the cabinet or container is closed, I provide a finger 21 on the bottom face of the cover 5 which, when the cover is lowered to closed position, will engage the switch 20 and move the same to open the circuit of the electrodes.

The cover 5 is provided on each side with a pair of fasteners 22 which, when the cover is closed, are adapted to fasten over the pins 23 of the hook members mounted on the sides of the container, and the end 8 is provided with a projecting finger 24 which, when the cover is closed, engages behind the cover to prevent this member from being withdrawn.

In order to provide a convenient receptacle for the electrolytic fluid, I provide on the shelf 2, a pocket 25 formed by a vertical side member 26 spaced apart from the rear wall of the container. This pocket is adapted to receive a suitable container, or bottle, 27, containing the electrolytic fluid.

If it is desired, a suitable handle, not shown, may be provided on the cover 5 to permit ready transportation of the container.

It will be noted that the ends of the batteries 19 are so spaced from the ends of the bottom of the container and the shelf 2 that sufficient space is allowed to accomodate the pocket formed by the wall 11. Furthermore, it will be seen that when the end wall 8 is closed, the wall 11 will come sufficiently into contact with the ends of the batteries to prevent longitudinal movement of the batteries during transportation. In order to prevent the batteries from rolling laterally, I provide side rails 28 extending lengthwise of the bottom of the compartment 4 and between which the batteries 19 are arranged to be placed.

I claim as my invention:

1. A portable self-contained electro-plating apparatus, comprising an enclosing casing divided horizontally into an upper and

lower compartment and provided with a hinged cover and with a removable end wall, said container being divided into two compartments by a horizontally disposed shelf, an electro-plating container mounted in the upper compartment upon said shelf and provided with electrode terminals extending through the walls thereof and having binding posts on the exterior, a pair of binding posts mounted upon the upper surface of said shelf, electric batteries mounted in the bottom compartment of the container and having their terminals respectively connected to said binding posts, said end member and cover being arranged, when closed, to completely enclose and protect all of the parts of the apparatus within the casing and when open, to permit access respectively to the batteries in the bottom compartment and to the electro-plating container.

2. A portable self-contained electro-plating apparatus, comprising an enclosing casing divided horizontally into an upper and lower compartment and provided with a hinged cover and with a removable end wall, said container being divided into two compartments by a horizontally disposed shelf, an electro-plating container mounted in the upper compartment upon said shelf and provided with electrode terminals extending through the walls thereof and having binding posts on the exterior, a pair of binding posts mounted upon the upper surface of said shelf, electric batteries mounted in the bottom compartment of the container and having their terminals respectively connected to said binding posts, said end member and cover being arranged, when closed, to completely enclose and protect all of the parts of the apparatus within the casing and when open, to permit access respectively to the batteries in the bottom compartment and to the electro-plating container, a switch on said shelf for controlling the circuit from the batteries to the electrodes, and means on the cover for opening said switch when the cover is moved into closed position.

3. A portable self-contained electro-plating apparatus, comprising an enclosing casing divided horizontally into an upper and lower compartment and provided with a hinged cover and with a removable end wall, said container being divided into two compartments by a horizontally disposed shelf, an electro-plating container mounted in the upper compartment upon said shelf, a pair of binding posts mounted upon the upper surface of said shelf, electrodes associated with said binding posts and with said container, electric batteries mounted in the bottom compartment of the container and having their terminals respectively connected to the binding posts, said end member and cover being arranged, when closed, to completely enclose and protect all of the parts of the apparatus within the casing and when open, to permit access respectively to the batteries in the bottom compartment and to the electro-plating container.

4. A portable self-contained electro-plating apparatus, comprising an enclosing casing divided horizontally into an upper and lower compartment and provided with a suitable cover and with a removable end wall, said container being divided into two compartments by a horizontally disposed shelf, an electro-plating container mounted on the upper compartment upon said shelf and provided with electrodes, electric batteries mounted in the bottom compartment of the container and having their terminals respectively connected to the electrodes of the container, said end member being provided on its inner face with a suitable pocket and the ends of said batteries lying a sufficient distance away from the end of the compartment to accommodate the pocket on said removable end wall, the inner end wall of said pocket being arranged to prevent, when the container end wall is closed, longitudinal displacement of the batteries, and said end member and cover being arranged, when closed, to completely enclose and protect all of the parts of the apparatus within the casing and when open, to permit access respectively to the batteries in the bottom compartment and to the electro-plating container.

In witness whereof I, ROBERT W. BLAKE, have hereunto set my hand at Indianapolis, Indiana, this 21st day of February, A. D. one thousand nine hundred and twenty four.

ROBERT W. BLAKE.