No. 609,573. Patented Aug. 23, 1898.

C. C. CLAWSON.

POWDER DISTRIBUTER.

(Application filed Nov. 16, 1897.)

(No Model.) 2 Sheets—Sheet 1.

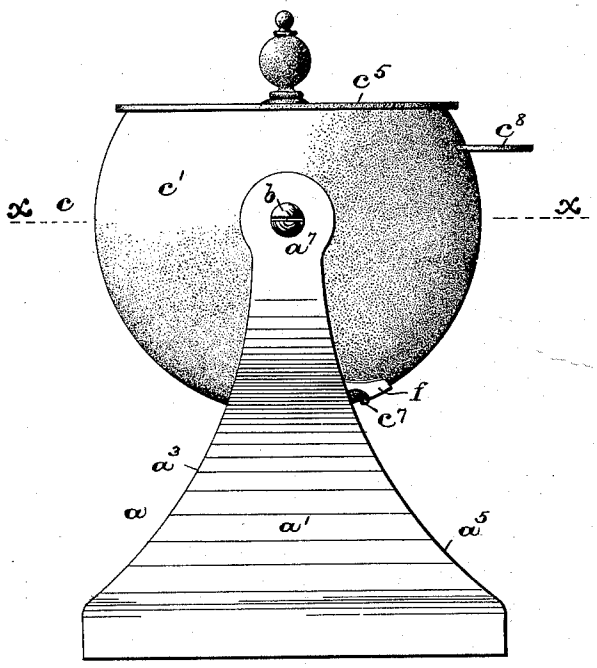


FIG. 1

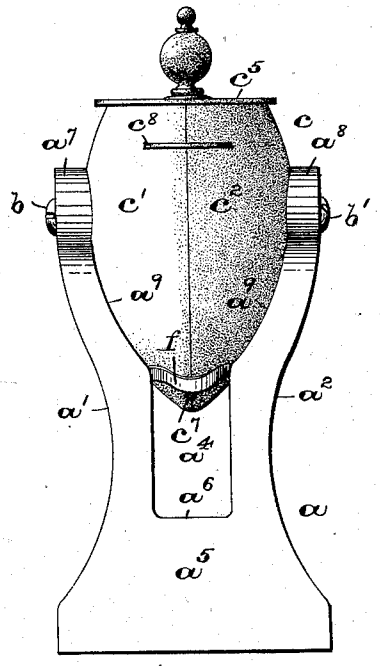


FIG. 2

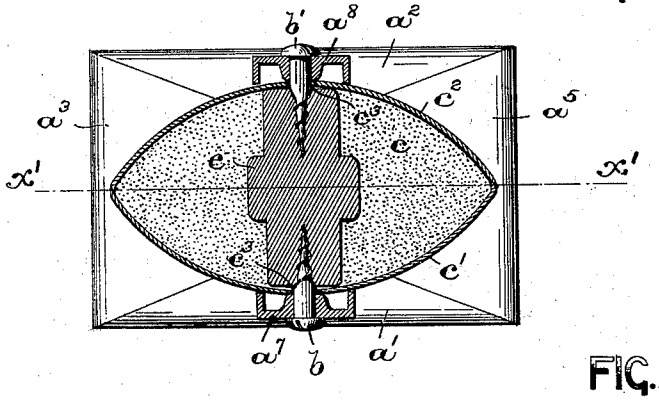


FIG. 3

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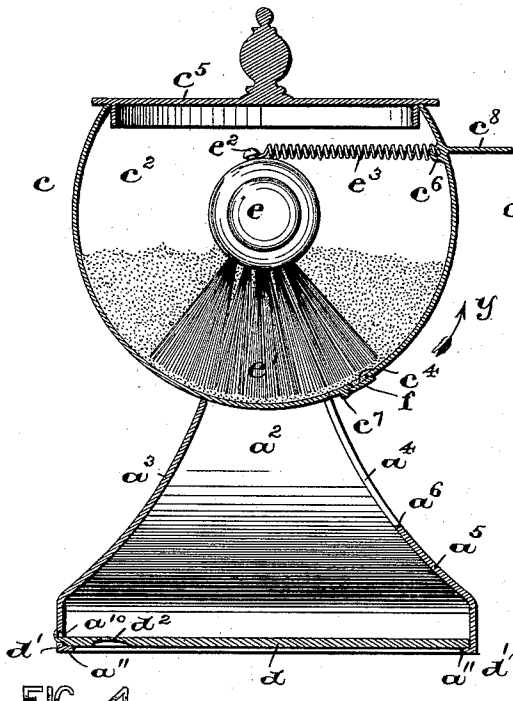


FIG. 4

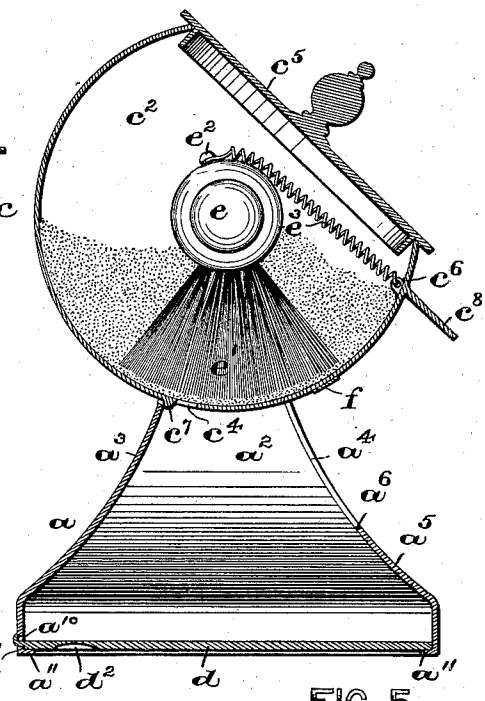


FIG. 5

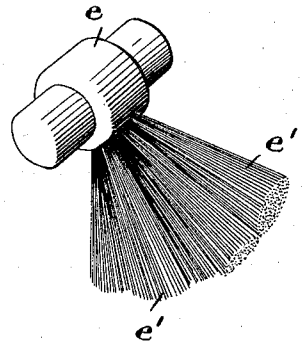


FIG. 6

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UNITED STATES PATENT OFFICE.

CLEMENT C. CLAWSON, OF NEWARK, NEW JERSEY.

POWDER-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 609,573, dated August 23, 1898.

Application filed November 16, 1897. Serial No. 658,707. (No model.)

To all whom it may concern:

Be it known that I, CLEMENT C. CLAWSON, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Powder-Distributers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

In an application for Letters Patent filed contemporaneously herewith I have illustrated and described a powder-distributer comprising a suitable receptacle for the reception of the powder having an outlet-opening, and means movably arranged in connection with said receptacle adapted to cause the distribution of the powder from said receptacle, which is stationary in a suitable frame or base, upon the bristles of a brush to be placed in said frame or base beneath the discharge-opening in the powder-receptacle.

My present invention is in the nature of an improvement on the device set forth in said application hereinabove mentioned; and this invention has for its primary object to provide a powder-distributer comprising a suitable frame or base adapted to receive a brush, a powder-receptacle movably arranged in said frame or base having a discharge-opening, and means operating to normally close said discharge-opening in said receptacle.

A further object of this invention is to provide in connection with a frame or base and a movable powder-receptacle therein having a discharge-opening a fixed or stationary brush in said receptacle for forcing the powder through the discharge-opening during the motion of the powder-receptacle.

A further object of the invention is to provide a simple and ornamental device which shall be very useful for distributing tooth or other powder upon the bristles of a brush.

The invention therefore consists in the novel construction of powder-distributer hereinafter set forth, and also in the novel arrangements and combinations of the parts and the details of the construction thereof, all of which will be more fully described in the accompanying specification and finally embodied in the clauses of the claim.

The invention is clearly illustrated in the accompanying drawings, in which—

Figure 1 is a side view, and Fig. 2 a front end view, of a powder-distributer embodying the principles of my present invention; and Fig. 3 is a horizontal section of the same, taken on line x in Fig. 1. Fig. 4 is a longitudinal vertical section of the powder-distributer, taken on line x' in Fig. 3, illustrating the movable parts of the device in their initial or inoperative positions. Fig. 5 is a similar view of the several parts of the device, representing the movable parts in their operated positions to distribute the powder upon the bristles of a brush. Fig. 6 is a perspective view of an arbor and brush to be used in connection with the powder-distributer.

Similar letters of reference are employed in all of the above-described views to indicate corresponding parts.

In said drawings, a indicates a suitable supporting frame or base, which is preferably closed on both of its sides a' and a^2 and at its back a^3, substantially as illustrated. The front of said base or frame is provided with an opening a^4 in the closed part a^5, said opening a^4 and part a^5 forming a rest a^6 for the reception of a tooth or other brush upon the bristles of which the powder is to be distributed. The upper portions of the side pieces a' and a^2 of said frame or base a terminate in suitable bearing portions a^7 and a^8, in which I have securely arranged certain pins or screws b and b', the free ends of which are driven into the ends of an arbor or support e, which is provided with suitably-arranged bristles e', forming a brush or brushes, substantially as illustrated. Movably or pivotally arranged on said pins or screws b and b' are a pair of convex shells, of metal, as c' and c^2, which are suitably secured together to form a truncated ellipsoid, as illustrated, to form a powder-receptacle c; but of course it will be evident that said receptacle may be of any other desirable configuration. As will be seen from an inspection of Fig. 3, the said shells c' and c^2 are provided with the holes or openings c^3, whereby the receptacle can be

pivotally arranged upon said pins or screws b and b'.

From the several figures of the drawings it will be evident that the front and back may be suitably cut away to form the curved edges a^9, which correspond to the contour of the receptacle c to permit of its pivotal motion on the pins or screws b and b'. In the lower portion of the back is a horizontal slot or opening a^{10} to receive a plate d, which can be placed on the surrounding rim or flange a^{11} of the frame or base a, said plate having an offset d', whereby it is held in place in the frame or base, and has a notch or catch d^2, whereby the plate is capable of being raised sufficiently to permit its withdrawal from said frame or base for the purposes of cleaning. The said powder-receptacle c is provided with a suitably-placed outlet-opening c^4, and has an opening in the top which is closed by any well-known form of lid or cover c^5. On the fixed and stationary arbor e, hereinabove mentioned, is a pin or screw e^2, to which is attached one end of a spring e^3, the opposite end of said spring being secured to an eye e^6 or any other suitable fastening means in said receptacle c. The tendency of this spring is to force or rotate said receptacle c in the direction of the arrow y in Fig. 4, whereby a stop c^7 on the bottom of said receptacle is forcibly brought against a bridge piece or bar f, suitably connected with the side pieces of the frame or base a, thus bringing the discharge-opening c^4 directly behind said piece or bar f, and the latter thereby acting to normally close said discharge-opening, as clearly indicated in Figs. 1, 2, and 4. To open said discharge-opening and to distribute a certain quantity of the powder over the bristles of the brush which has been inserted through the opening a^4 in the front of the frame or base a, the operator places his or her hand on a suitable finger-piece c^8, connected with the receptacle c, whereby a partial rotation of the latter is caused, said rotation being limited by the said stop c^7 coming in contact with the inner surface of the back a^3 of the frame a, as clearly illustrated in Fig. 5. At the same time the discharge-opening c^4 has moved away from the closing piece or bar f, and the powder is distributed over the entire surface of the bristles of the brush, which has been placed in position in the frame or base a. After the person removes the hand from the finger-piece c^8 the distended spring e^3 causes the return of the receptacle c to its initial position, the stop c^7 again coming in contact with the plate or bar f, and said plate or bar securely closes the discharge-opening c^4 in said receptacle c.

I am aware that many changes may be made in the several arrangements and combinations of parts without departing from the scope of my invention. Hence I do not limit myself to the exact arrangements and combinations of the parts herein described and illustrated in the drawings.

Having thus described my invention, what I claim is—

1. In a powder-distributer, the combination, with a frame or base, having a rest for the reception of a brush, of a powder-receptacle movably arranged in said frame or base, having a discharge-opening, and means operating to normally close said opening, consisting of a plate or bar f on said frame or base, substantially as and for the purposes set forth.

2. In a powder-distributer, the combination, with a closed frame or base having an opening for the reception of a brush, of a powder-receptacle movably arranged in said frame or base, having a discharge-opening, and means operating to normally close said opening, consisting of a plate or bar f on said frame or base, substantially as and for the purposes set forth.

3. In a powder-distributer, the combination, with a frame or base, having a rest for the reception of a brush, of a powder-receptacle movably arranged in said frame, having a discharge-opening, a fixed brush in said receptacle, and means operating to normally close said discharge-opening, substantially as and for the purposes set forth.

4. In a powder-distributer, the combination, with a frame or base, having a rest for the reception of a brush, of a powder-receptacle movably arranged in said frame, having a discharge-opening, a fixed brush in said receptacle, and means operating to normally close said discharge-opening, consisting of a plate or bar f on said frame or base, substantially as and for the purposes set forth.

5. In a powder-distributer, the combination, with a closed frame or base, having an opening for the reception of a brush, of a powder-receptacle movably arranged in said frame or base, having a discharge-opening, a fixed brush in said receptacle, and means operating to normally close said discharge-opening, substantially as and for the purposes set forth.

6. In a powder-distributer, the combination, with a closed frame or base, having an opening for the reception of a brush, of a powder-receptacle movably arranged in said frame or base, having a discharge-opening, a fixed brush in said receptacle, and means operating to normally close said discharge-opening, consisting of a plate or bar f on said frame or base, substantially as and for the purposes set forth.

7. In a powder-distributer, the combination, with a frame or base a, having bearing portions a^7 and a^8, pins or screws in said bearing portions, an oscillatory powder-receptacle on said pins or screws, having a discharge-opening, and means operating to normally close said discharge-opening, consisting of a plate or bar f on said frame or base, substantially as and for the purposes set forth.

8. In a powder-distributer, the combination, with a frame or base a, having bearing portions a^7 and a^8, pins or screws in said bear-

ing portions, an arbor or support secured in a fixed position on said pins or screws and a brush or brushes thereon, an oscillatory powder-receptacle on said pins or screws, having a discharge-opening, and means operating to normally close said discharge-opening, substantially as and for the purposes set forth.

9. In a powder-distributer, the combination, with a frame or base *a*, having bearing portions a^7 and a^8, pins or screws in said bearing portions, an arbor or support secured in a fixed position on said pins or screws and a brush or brushes thereon, an oscillatory powder-receptacle on said pins or screws, having a discharge-opening, and means operating to normally close said discharge-opening, consisting of a plate or bar *f* on said frame or base, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 12th day of November, 1897.

CLEMENT C. CLAWSON.

Witnesses:
FREDK. C. FRAENTZEL,
WM. H. CAMFIELD, Jr.