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COMPACT PRESS AND METHOD OF MAKING COMPACTS.

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The present invention relates to improvements in apparatus or devices for making compacts, particularly face powder compacts as they are used in ladies' vanity cases or the like, and it is the principal object of my invention to provide such an apparatus allowing the ready exchange of the dies used for the compression of the powder in order to make compacts of round, half-moon or any other desired configuration.

Another object of the invention is the provision of an apparatus for making compacts of simple and therefor inexpensive construction, yet durable and efficient in operation, and one which can be operated by persons not specially skilled in this art.

A further object of the invention is the provision of an apparatus of this type including a die carrying handle and suitable guides for the same.

A still further object of my invention is the provision of a novel method or process for making compacts with my improved apparatus.

These and other objects and advantages of my invention will become more full apparent as the description thereof proceeds, and will then be specifically defined in the appended claims.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a side elevation of a compact press constructed according to my invention, in section on line 1—1 of Figure 2.

Fig. 2 is a top plan view thereof seen in the direction of arrows 2—2 of Figure 1.

Fig. 3 is a cross-section on line 3—3 of Figure 2.

Fig. 4 is a section on line 4—4 of Figure 2.

Fig. 5 is an elevation of one form of compact made with my apparatus and according to the method invented by me.

Fig. 6 is a view similar to Figure 5 showing a modified form of compact.

As illustrated on the drawing, a table 10 or support has erected thereon, a stamping press 11 guiding in the well known manner a plunger 12 carrying at its lower end a suitable die 13 adapted to be operated by means of the plunger operating lever system 14 by means of the operating lever or handle 15 in the usual well known manner.

A bar or rod 16 is pivotally secured at one end, as at 17, between the upper forked ends of a peg 18 turnably set with its lower end

into a plate 19 on table 10 having two longitudinally extending, parallel slots 20, 21 at one end in which pins 22, 23 respectively slide which are set in the table so as to allow an adjustment of the plate with relation to the table and to limit its movements.

Intermediate its ends the bar 16 has a circular element 24 formed therewith having an inner shoulder adapted to act as seat for the compact to be pressed, and the die having its lower face 26 shaped according to the compact.

The outer end of bar 16 is formed into a convenient handle 27, while a guide 28 has a recess 29 formed in the upper edge of its rear end for the reception of bar 16 during the pressing operation, and a foot 30 set in the table. At its front end the guide 28 is slanting towards the table, as indicated at 31.

The compacts are formed on a metal base 32 or the like plate having the shape of the compact by covering said base with an adhesive and placing the powder thereon by means of a special suitably formed tool on an anvil 33, from where it is placed on the shoulder 25 of the circular element 24 on bar 16. The compact can have either the form illustrated in Figure 5 at 34, or that shown in Figure 6 at 35, and the die 26 is selected to suit the particular form and is then carried down against anvil 36 and pressed down to compress the compact powder to a solid cake.

It will be clear that the disclosure illustrates as an example the preferred form of my apparatus only, and that such changes as come within the scope of the appended claims may be made in the construction of the minor details thereof and in their combination without departure from the spirit of my invention.

According to my novel method of making compacts, the plate or base 32 is coated with mucilage or the like adhesive substance and the powder is picked up from a supply in the exact quantity needed by a special tool made for this purpose, whereupon the compact and powder are brought under the action of the die which presses the compact in the form desired with the powder forming a whole with the base in a perfect compact and solid form.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. Powder compact press comprising a bar, a seat formed with said bar for seating a compact to be pressed, means for carrying the compact on said seat under a die press, means for allowing a manipulation of said bar, a means for guiding said bar, and a means for adjustably securing said bar.

2. Powder compact press comprising a rod, a circular member formed with said rod intermediate the ends thereof, a seat formed with said member for a compact, a means for turnably and adjustably mounting one end of said rod, a guide having a recess near the rear end thereof and a front end slanting against the table for shifting said rod into the recess when said member is under a die for pressing the compact by a presser member.

3. The combination of a presser apparatus adapted to receive and hold exchangeable dies, with a compact holding device adapted to be guided under the die and held in place thereunder, and an anvil to provide the required resistance during the pressing operation.

4. The combination of a presser apparatus adapted to receive and hold exchangeable compact dies, with a table, an anvil on said table under and in line with the presser die, a movable support for the compact to be pressed, an anvil on said table for preparing the compact, and a means for adjusting the movable support for the compact.

5. The combination of a presser apparatus adapted to receive and hold exchangeably compact dies, with a table, a plate on said table having parallel longitudinal slots, pins on said table traveling in said slots, a turnable foot having a forked upper end mounted on said plate, a rod movably held between the forks of said turnable foot for swinging motion, a circular member on said rod adapted to be swung with the compact thereon underneath the die, and a means for guiding the said member under the dies and hold it in position thereunder.

6. A method of making compacts of face powder consisting in coating a base with an adhesive, placing a quantity of powder of a predetermined measure on said adhesive coated base, and compressing said powder to adhere as a solid cake to said base.

7. A method of making face powder compacts consisting in coating a metal base having the form of the compact desired with mucilage, placing a predetermined quantity of powder taken from a supply by a special tool upon the coat on said base, carrying said base and powder under a die, holding said base and powder underneath the same and pressing said powder onto said base to form with the same a solid cake.

Signed at New York in the county of New York and State of New York this 30th day of December A. D. 1926.

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