(No Model.)

J. BARNEWITZ.

PROCESS OF PACKING POWDERED SUBSTANCES.

No. 528,899. Patented Nov. 6, 1894.

FIG. 1.

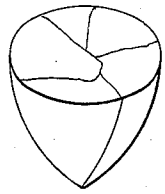


FIG. 2.

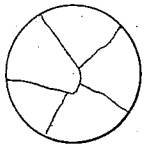


FIG. 3.

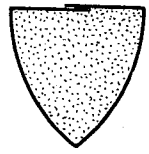


FIG. 4.

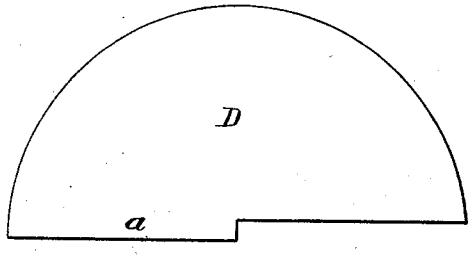


FIG. 5.

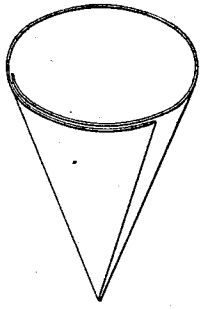


FIG. 6.

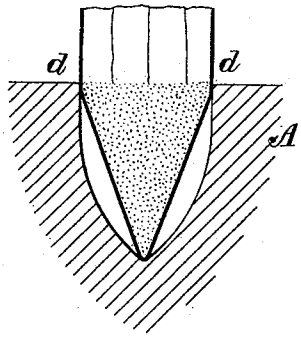
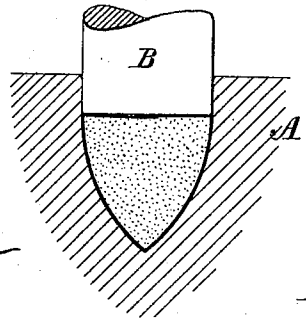


FIG. 7.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN BARNEWITZ, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO HAMILTON A. RICHARDSON, OF SAME PLACE.

PROCESS OF PACKING POWDERED SUBSTANCES.

SPECIFICATION forming part of Letters Patent No. 528,899, dated November 6, 1894.

Application filed July 21, 1894. Serial No. 518,205. (No model.)

To all whom it may concern:

Be it known that I, JOHN BARNEWITZ, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented a certain Process of Packing Powdered Substances, of which the following is a specification.

My invention consists of certain improvements in packing powdered substances such as prepared chalk, face powders, &c. Heretofore these powders have been compressed while wet, reliance being placed upon the adherence of the particles to retain them in the compressed form. It has been found by experience, however, that as soon as the material, especially the prepared chalk, becomes dry it crumbles in the hands and will not retain its form, and it cannot be shipped without great loss from breakage.

The object of my invention is to compress the chalk into shape and at the same time to apply a covering material thereto so that the chalk is protected and can be handled without liability of being broken or disintegrated.

In the accompanying drawings:—Figure 1, is a perspective view showing one form of my improved package of powdered material. Fig. 2, is a plan view of the package. Fig. 3, is a sectional view of the same. Fig. 4, is a view of a paper wrapper which is used to make the package shown in Fig. 1. Fig. 5, is a perspective view of the wrapper shaped to receive the powdered material. Fig. 6, is a view showing the wrapper and powered material within the mold before compression; and Fig. 7, is a view showing the wrapper and material compressed.

It will be understood that I do not limit myself to the precise form of wrapper or the precise form of the completed package as other shapes may be made without departing from the main feature of my invention. In making a conical package, however, I make the mold A of the shape desired and adapt to this mold a plunger B, and I cut the wrapper D, preferably of paper, in the shape shown in Fig. 4, and twist it to form a cone, as shown in Fig. 5. This cone is then inserted in the mold A, as shown in Fig. 6, and the powder or granular material is poured into the same to the depth required after which the upper ends *d* of the wrapper are turned down, as shown in Fig. 2, and the plunger is forced into the mold, as shown in Fig. 7, thereby compressing not only the powdered material into a cohering mass, but also the wrapper to such an extent that it will fit tightly around and adhere to the granular material and will form a solid package which will retain its form while being handled or transported, the wrapper preventing the material from cracking and breaking.

When it is desired to use the material the portions *d* inclosing the top of the package are removed so as to expose the compressed powder and as the powder is used the wrapper can be cut or torn away.

By forming the flap *a* on the wrapper, as shown in Fig. 4, the desired lap of the wrapper at the point of the cone is insured, so as to close the hole which might otherwise be presented at that point.

I claim as my invention—

1. The process herein described of packing powdered material, said process consisting in forming a wrapper, charging the wrapper with the powdered material, and then compressing the wrapper and the powdered material therein contained in a suitable mold, thus forming said powdered material into a cohering mass substantially as described.

2. The process herein described of packing powdered material, said process consisting in shaping a wrapper in the form of a cone, charging the conical wrapper thus formed with powdered material, turning down the edges of the wrapper upon the powdered material, placing the wrapper and the powdered material therein in a mold and compressing the same so as to form a package of powdered material into a cohering mass with a wrapper attached, substantially as described.

3. As a new article of manufacture, a package of powdered material having a wrapper compressed with and adhering thereto, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN BARNEWITZ.

Witnesses:

WILLIAM A. BARR,

JOSEPH H. KLEIN.