March 10, 1931. H. C. DAVIS 1,796,086

DISPENSER

Filed March 7, 1929

Fig. 1.

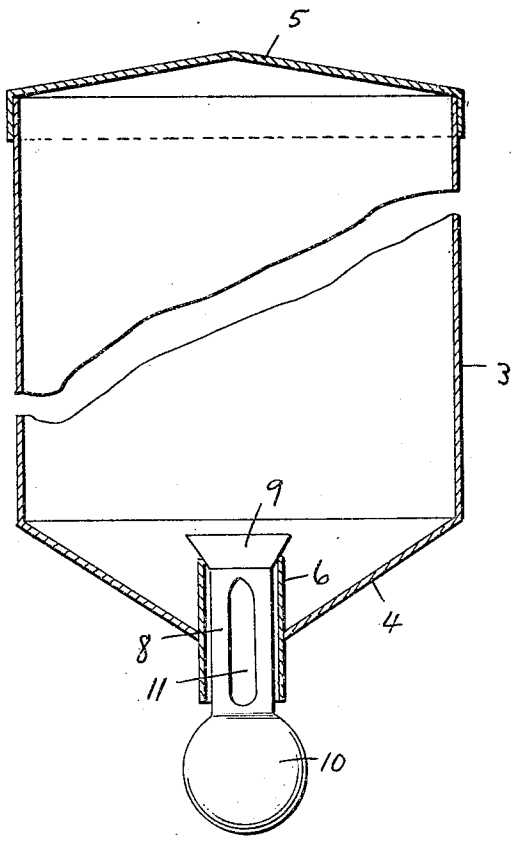


Fig. 3.

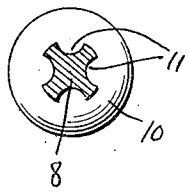
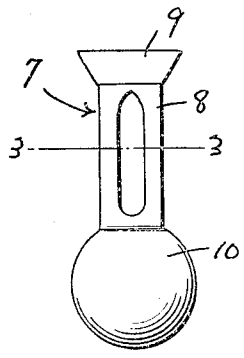


Fig. 2.



Inventor

Hallard C. Davis

By Clarence A. O'Brien

Attorney

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UNITED STATES PATENT OFFICE

HALLARD C. DAVIS, OF WINNER, SOUTH DAKOTA

DISPENSER

Application filed March 7, 1929. Serial No. 345,079.

This invention appertains to improvements in the art of dispensing and has a more specific reference to a novel dispenser especially adapted for dispensing powdered soap.

The principal object of the invention is to provide a dispenser of this character which because of its extremely brief construction can be manufactured at a low cost to permit the general use thereof in hotels, railway stations and other public places.

Another important object of the invention is to provide a dispenser which requires but a slight manipulation to cause the discharge of sufficient soap material to wash the face and hands.

Other important objects and advantages of the invention will become apparent to the reader after considering the invention as described and claimed hereinafter.

In the drawing:

Figure 1 represents a vertical sectional view through the invention.

Figure 2 is a side elevation of the plunger structure.

Figure 3 is a cross sectional view of the plunger taken substantially on line 3—3 of Figure 2.

Referring to the drawings wherein like numerals designate like parts a container 3 is open at its top and provided with an inverted conical shaped bottom wall 4. A slip-type cover 5 is provided for the open top of the container.

The apex portion of the bottom wall 4 is provided with an outlet opening within which is arranged and suitably secured a vertical tubular guide 6 which extends above and below the wall 4.

A novel plunger structure, generally referred to by numeral 7 in Figure 2 consists in construction of a cylindrical body 8 provided with an outwardly flared head 9 at its upper end to afford a valve element in the operation of the dispenser which will be described hereinafter.

The opposite end of the cylindrical body 8 has a spherical shaped enlargement 10. The distance between the head 9 and the spherical enlargement 10 is substantially greater than the length of the tubular guide 6, so that some freedom of movement is available to permit the unseating of the head 9 from the upper end of the tubular guide 6. The cylindrical body 8 is provided with a plurality of longitudinally extending grooves 11 through which the powdered soap may discharge from the container 3, when the plunger 7 is moved upwardly within the guide 6.

It will thus be seen that normally the plunger will assume the gravitated position shown in Figure 1. In this position the head 9 is seated within the upper end of the tubular guide 6 and the outlet is entirely closed. When the plunger is permitted to gravitate, the head 9 will close the upper end of the guide tube, and that material will fall onto the spherical enlargement 10 and being deflected thereby will spread onto the hands of the person operating the device.

Obviously various changes in the specific shape, size, and materials may be resorted to in the manufacture of this novel device without departing from the spirit and scope of the invention as claimed hereinafter.

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

A dispenser for soap powder and the like comprising a container having an inclined wall surrounding an outlet in its bottom, a tubular guide in said outlet extending each way therefrom, a plunger body slidably mounted within said tubular guide and of a length greater than said tubular guide, said plunger provided with an outwardly flared head on its upper end and an enlargement on its lower end and further provided with a plurality of longitudinally extending grooves adapted to permit a flow of the dispensed material through said tubular guide, substantially as set forth.

In testimony whereof, I affix my signature.

HALLARD C. DAVIS.