Dec. 15, 1936. C. J. BALDWIN 2,064,719

DISPENSING APPARATUS

Filed Oct. 11, 1935

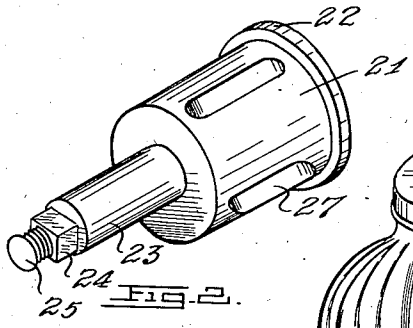


Fig. 2.

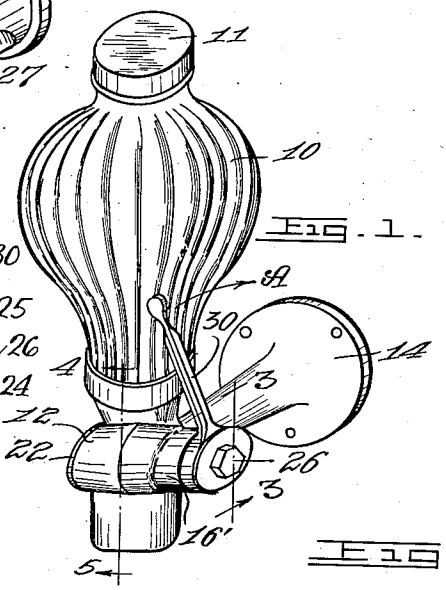


Fig. 1.

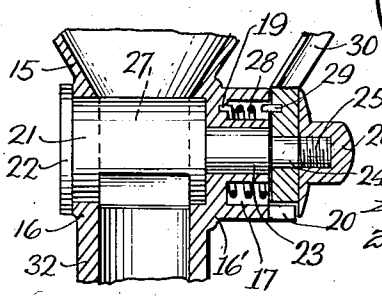


Fig. 3.

Fig. 4.

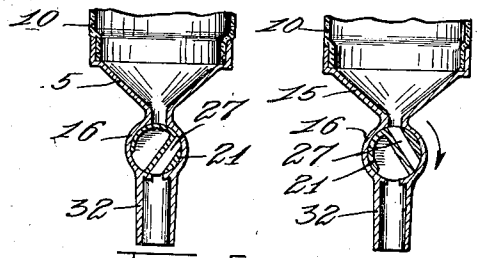


Fig. 5.

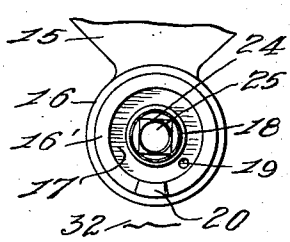


Fig. 6.

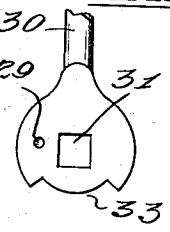


Fig. 7.



Fig. 8.

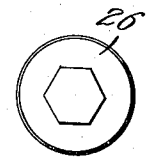


Fig. 9.

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Patented Dec. 15, 1936

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UNITED STATES PATENT OFFICE

2,064,719

DISPENSING APPARATUS

Clayton James Baldwin, Ottawa, Ontario, Canada, assignor to Dustbone Products Limited, Ottawa, Ontario, Canada

Application October 11, 1935, Serial No. 44,619

3 Claims. (Cl. 221—106)

This invention relates to a dispensing apparatus and more particularly for dispensing powdered or granulated soap, although it may be used for dispensing sugar or any other like commodity.

The object of the invention is to provide a container having a discharge member in association therewith, which discharge member is provided with a rotatably mounted body portion with a measuring opening therethrough normally retained in filling position and manually movable to discharge position.

A further object is to provide a construction wherein the parts will be operative in such relation to each other as to eliminate the possibility of wear to the moving parts when granulated abrasive soap is dispensed.

With the foregoing and other objects in view, as will appear as the description proceeds, the invention consists of the novel construction, combination and arrangement of co-operating elements as hereinafter more specifically set forth, claimed and shown in the accompanying drawing, forming a part of the present application, in which:

Fig. 1 is a perspective view of the preferred embodiment of my invention.

Fig. 2 is a perspective view of the dispensing unit showing the preferred embodiment thereof.

Fig. 3 is a vertical sectional view taken on the line 3—3 of Fig. 1.

Figs. 4 and 5 are sectional views taken on the line 4—5 of Fig. 1, Fig. 4 showing the dispensing unit in filling position and Fig. 5 showing the dispensing unit in discharging position.

Fig. 6 is a fragmentary side elevation of the discharge member, the operating handle, spring and nut being removed.

Fig. 7 is a fragmentary elevation view of the inner face of the operating lever.

Fig. 8 is a side elevation view of the spring tension member.

Fig. 9 is a view of a cap-nut as preferably used.

Like numerals of reference designate corresponding parts throughout the several views.

10 is a container of any desired form and preferably of transparent material. This container is provided with a filling opening closed by the cap 11. 12 is the discharge member supported from a base 14 and supporting the container 10. The discharge member 12 is provided at its upper end with a funnel shaped portion 15 upon which the container 10 is co-operatively attached, so that soap in said container may gravitate through the funnel 15.

Below the funnel shaped portion 15, the container 12 enlarges to provide the transverse hollow body portion 16. Adjacent one end of this hollow body portion 16, I provide a wall 17 carrying an inner sleeve 18. This construction provides an annular pocket between the sleeve 18 and the outer wall 16' of the hollow body portion 16, which pocket is of a depth from the end (shown at the right in Fig. 3) and the wall 17. The wall 17 is provided with a pin opening 19 and the outer wall 16' is provided with a stop shoulder 20.

21 is the body portion of the dispensing unit cylindrical in form and having an annular shoulder 22 at one end to abut against the face of the hollow body portion 16, when said unit is fitted into said body portion. 23 is the shaft extending through and snugly operating in the sleeve 18. This shaft is provided with a squared portion 24 and an outer cylindrical portion 25, the latter being threaded to receive the cap-nut 26. The body portion of the dispensing unit 21 is provided with a tangently formed opening 27 longitudinally therein. The coil spring 28 is housed in the pocket, hereinbefore mentioned, with one end thereof engaged in the pin opening 19. The other end of the spring 28 engages in the pin opening 29 on the inner face of the enlarged end of the operating handle 30. This enlarged end is provided with an opening 31 adapted to be fixedly engaged over the squared portion 24 of the shaft 23. The cap-nut 26 when threadedly engaged over the portion 25 will retain the enlarged end of the handle 30 tightly in position, enclose the spring 28 in the pocket and at the same time retain the dispensing unit 21 in tight contact position longitudinally in the hollow body portion of the discharge member 12.

When the operating handle 30 is in the position as shown in Fig. 1, the dispensing unit 21 will be in the position as shown in Fig. 4, so that material in the container 10 and funnel 15 may gravitate to fill the opening 27, which opening 27 is of a predetermined size to act as a measuring means for a predetermined quantity of material to be dispensed. Upon the handle 30 being moved rearwardly as indicated by the arrow A in Fig. 1, the dispensing unit is turned in the direction of the arrow Fig. 4 to the position shown in Fig. 5, closing off the intake of material from the funnel 15 and permitting the discharge of the material in the opening 27, through the chute 32. When the operating handle 30 is moved in the direction of the arrow A, shown in Fig. 1, the tension of the spring 28 is tightened and upon the operator's hand or finger being removed from the handle 30, the handle returns to normal position

as shown in Fig. 1 and the operating unit is returned to the position as shown in Fig. 4. The stop shoulder **20** in combination with the arcual recess **33** in the enlarged end of the handle **30** limits the movement of the handle **30** when normally pressed inwardly or tensionally moved outwardly.

The foregoing specification and annexed drawing discloses the preferred embodiment of my invention, but it is to be understood that minor changes may be resorted to in the commercial adaptation of my invention without departing from the scope of the invention as hereinafter claimed.

What I claim as new is:

1. A dispensing apparatus including a material receiver, a hollow body at the lower end thereof, said hollow body being in part cylindrical open at one end and closed inwardly at the opposite end by a wall formed with an axial opening, the annular wall of the body being extended beyond the wall as a housing section, a sleeve integral with said wall and extending in line with the axial opening and spaced from said housing section, a dispensing unit mounted in said hollow body between said open end and said wall, said unit having an axial shaft rotatably supported in and extending beyond said sleeve, an operating handle secured on the extended end of said shaft, and a spring terminally fixed in said wall and handle and housed in the space between the housing and sleeve.

2. A construction as defined in claim 1, wherein the dispensing unit has a terminal extension to close the open end of the hollow body when the unit is in place.

3. A construction as defined in claim 1, wherein the handle and housing section are formed with cooperating means to limit the movement of the handle in both directions.

CLAYTON JAMES BALDWIN.

CERTIFICATE OF CORRECTION.

Patent No. 2,064,719. December 15, 1936.

CLAYTON JAMES BALDWIN.

It is hereby certified that the name of the assignee in the above numbered patent was erroneously written and printed as "Dustbone Products Limited" whereas said name should have been written and printed as Dustbane Products Limited, of Ottawa, Ontario, Canada, as shown by the records of assignments in this office; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 2nd day of March, A. D. 1937.

(Seal)

Henry Van Arsdale
Acting Commissioner of Patents.