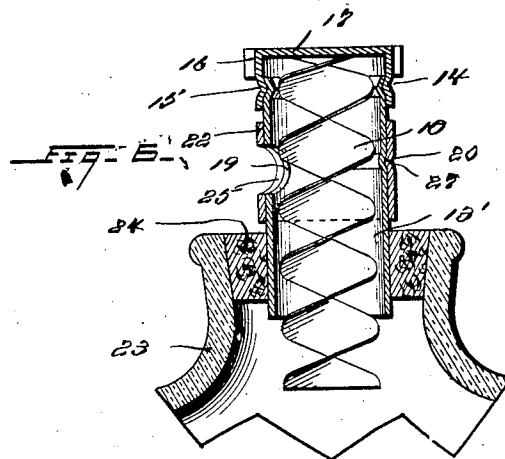
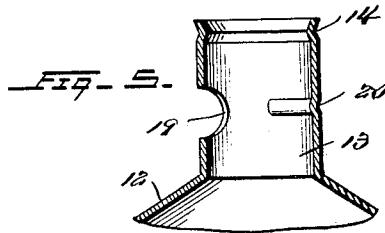
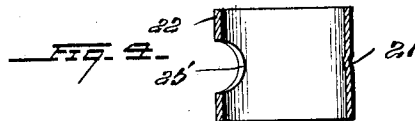
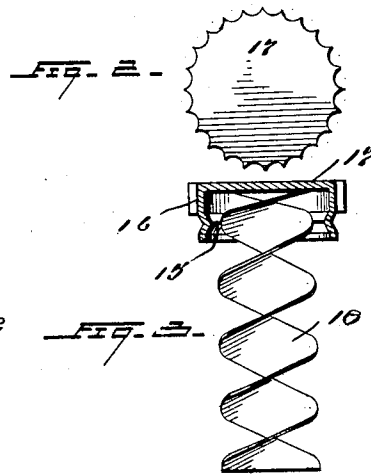
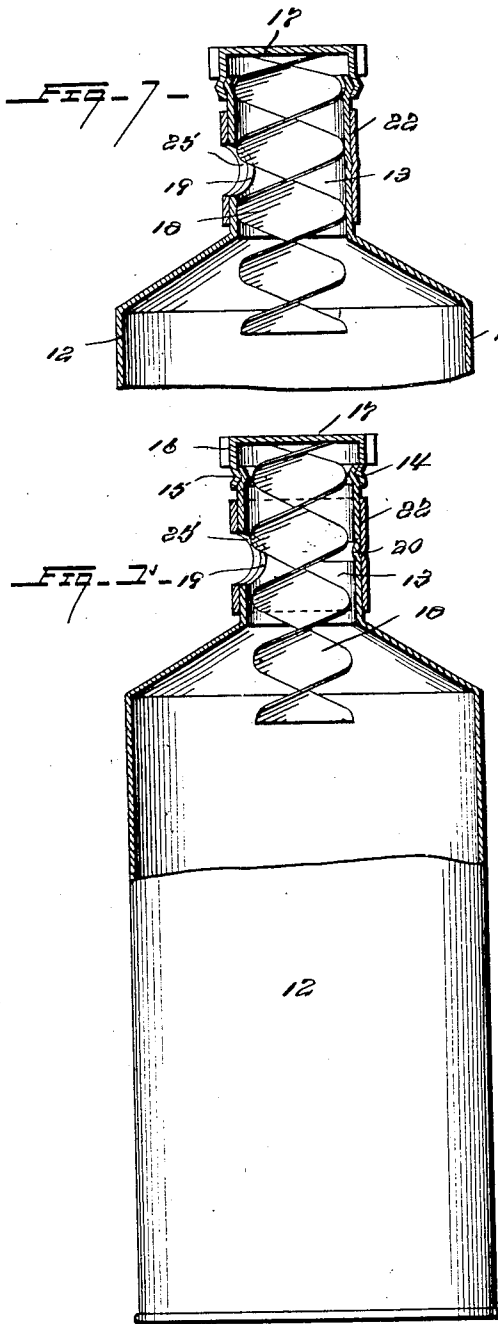


No. 835,573.

PATENTED NOV. 13, 1906.

W. J. & G. A. STEWART.  
CAN AND OTHER VESSEL.  
APPLICATION FILED OCT. 4, 1905.



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# UNITED STATES PATENT OFFICE.

WILLIAM J. STEWART AND GUY A. STEWART, OF NEW YORK, N. Y.

## CAN AND OTHER VESSEL.

No. 835,573.

Specification of Letters Patent.

Patented Nov. 13, 1906.

Application filed October 4, 1905. Serial No. 281,263.

*To all whom it may concern:*

Be it known that we, WILLIAM J. STEWART and GUY A. STEWART, citizens of the United States, residing at New York, in the county of New York and State of New York, have invented or discovered certain new and useful Improvements in Cans and other Vessels, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has for its object to provide a closure for a can, bottle, or similar vessel, and which will be of such construction that any desired amount of powdered or granular material contained in such vessel may be positively fed therefrom in a convenient and reliable manner.

To this end the invention comprises a neck, which may be a permanent portion of the can or which may be adapted for attachment to a bottle, jar, or similar vessel, the said neck being provided with a discharge-opening and having attached thereto and rotatably mounted thereon a cap which is provided with a feed-screw and which cap and screw may be turned by the thumb and finger of the user in such a manner as to discharge any desired amount of material from the vessel. The said neck is also preferably provided with a sleeve attached in such a manner as to be partially rotatable, the said sleeve being provided with an opening or hole which may be brought into register with the discharge-aperture in the neck of the can when it is desired to feed a quantity of the material from the can and which sleeve may be partially rotated to close the discharge-aperture in the said neck.

In the accompanying drawings, Figure 1 is a sectional elevation of a can embodying the present invention, adapted to contain tooth-powder or the like. Fig. 2 is a plan view of the top of the cap. Fig. 3 is a sectional view of the cap having a feed-screw attached thereto. Fig. 4 is a detail sectional view of the partially-rotatable sleeve. Fig. 5 is a detail sectional view of the neck on which the sleeve is to be mounted. Fig. 6 is a sectional view of the invention as adapted to be applied to a bottle, jar, or similar vessel. Fig. 7 shows a slightly-modified form of the invention.

Referring to the drawings, 12 denotes a can, which may be of tin or other suitable sheet metal and which is provided with a permanently-attached neck 13. Said neck

is provided near its top with an annular groove or depression 14, adapted to receive an indented or grooved portion 15 on a downwardly-extending flange 16 of a cap 17, so that the said cap will be secured to the said neck in such a manner as to permit it to be easily turned or rotated.

Permanently attached to the cap 17 by soldering or otherwise is a feed-screw 18, which extends down through the said neck, the latter being provided with a discharge-aperture or feed-opening 19, through which the material contained in the can may be discharged when the can is turned down horizontally simply by rotating the said cap, and thus turning the feed-screw attached thereto. Such rotation of the cap and feed-screw will positively force out through the discharge-aperture or feed-opening any desired amount of powder or granular material which may be contained in the can, and as the said cap, which is preferably corrugated or roughened at its periphery, may be readily turned by the thumb and finger of the user any desired amount of material can thus be fed from the said discharge-aperture. Such rotation of the cap and screw may easily be effected by the thumb and finger of the same hand which holds the vessel, so that, for example, if the can contains tooth-powder, one hand of the user may hold the brush on which any desired quantity of the tooth-powder may be dropped from the can without shaking the latter, the feed-discharge being positive, so that the amount of material fed from the can may be readily gaged or determined. The neck 13 is also provided with a partial annular groove 20, which receives an indentation 21 on the sleeve 22, so as to permanently attach said sleeve to said neck in such a manner that the said sleeve may be partially rotated on said neck to bring the opening or hole 25 therein into register with the aperture 19 in said neck when material is to be discharged or may be turned to close said aperture.

The form of the invention shown in Fig. 6 is adapted for use in connection with a wide-mouthed bottle or jar 23 and in which the neck 13' is inserted in a cork 24, which in turn is fixed in the mouth of the said jar or bottle. This form of the invention is particularly adapted for use in connection with druggists' bottles or jars containing powdered or granular material and from which it is frequently desirable to discharge a predetermined amount of material without dis-

charging too much, as into a scale, when the material is to be weighed, or when a certain amount of a given material is to be used, as in compounding prescriptions or the like.

5 Instead of locking the rotatable cap to the neck by forcing the material of the parts inward to form inturned locking-grooves or flanges, as above described, this result may be effected by forcing the materials of these  
10 parts outward, as shown in Fig. 7, and the interlocking parts of the neck and sleeve may also be similarly formed, as shown in said Fig. 7. This construction may be preferable, as it will permit a more tightly-fitting screw to  
15 be inserted in the neck; but other forms of joining the parts together may be employed without departing from the invention.

From the foregoing it will be apparent that the invention comprises means whereby a  
20 certain amount of powder or granular material may be discharged from a can or other vessel containing the same in a positive and reliable manner, such discharge being con-

veniently effected by the hand which holds the vessel, which latter will of course be  
25 turned over horizontally, or approximately so, when the material therein is to be discharged.

Having thus described our invention, we claim and desire to secure by Letters Patent—  
30

The combination with a neck provided with a discharge-aperture, of a cap rotatably attached to said neck, and a feed-screw permanently attached to said cap, said neck being provided with a partially-rotatable sleeve  
35 independent of said cap and having an opening which may be brought into register with the said aperture in said cap, and which latter may be closed by partially rotating said sleeve

In testimony whereof we affix our signatures in presence of two witnesses.  
40

WILLIAM J. STEWART.

GUY A. STEWART.

Witnesses:

F. G. WITHER,

M. G. SULLIVAN.