Dec. 9, 1924. 1,518,676

J. SERRE

APPARATUS FOR DISTRIBUTING PASTY SOAP

Filed July 3, 1923 2 Sheets-Sheet 1

Fig. 1

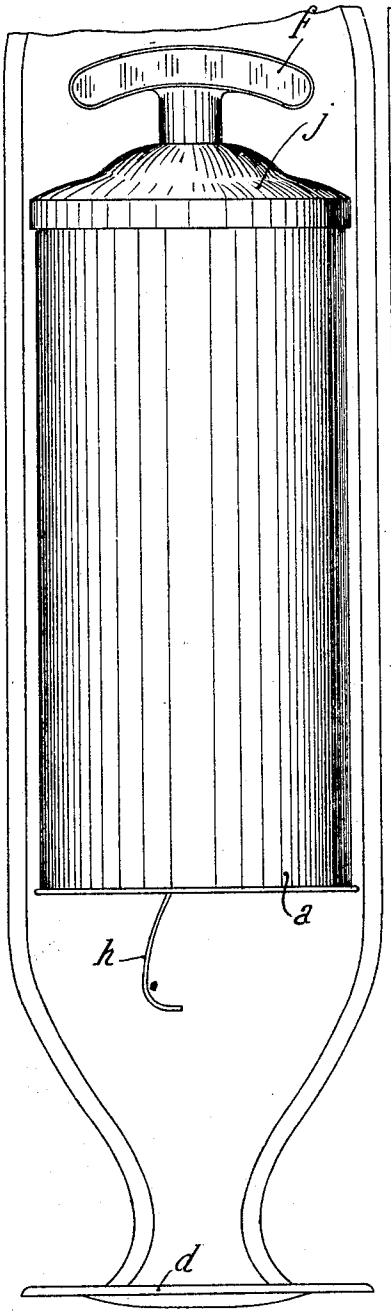
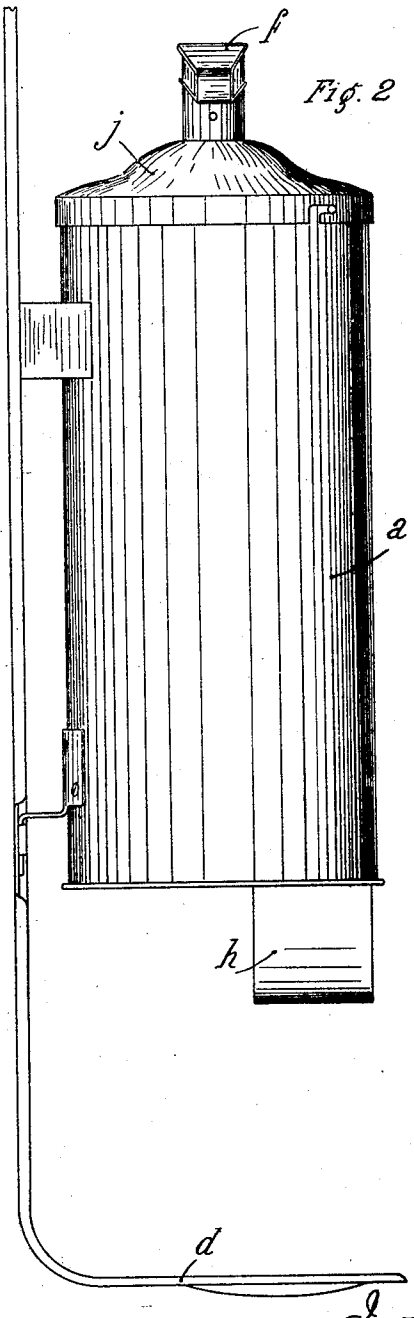


Fig. 2



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Filed July 3, 1923 2 Sheets-Sheet 2

Fig. 3

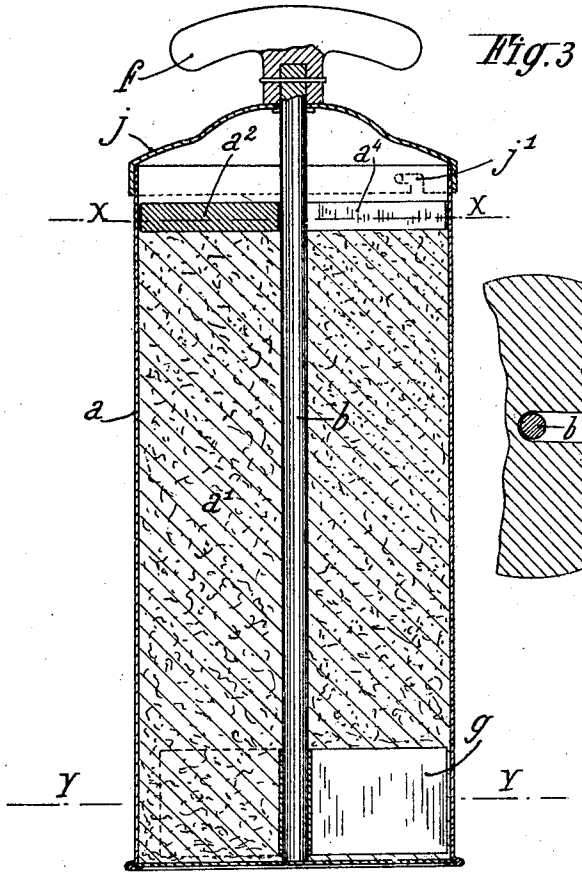


Fig. 4

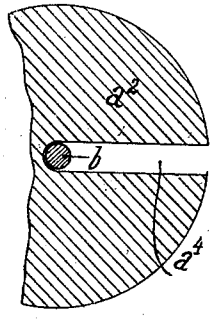


Fig. 6

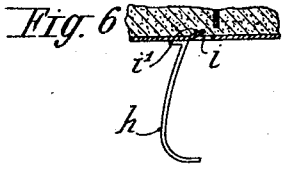
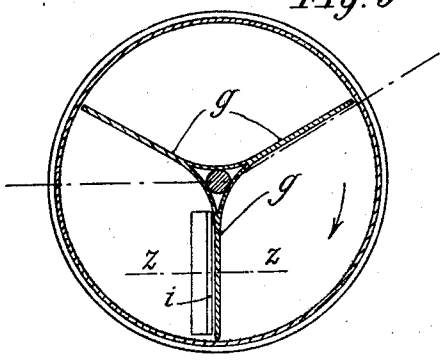


Fig. 5



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Patented Dec. 9, 1924. 1,518,676

UNITED STATES PATENT OFFICE.

JEAN SERRE, OF LE BOUSCAT-BORDEAUX, FRANCE.

APPARATUS FOR DISTRIBUTING PASTY SOAP.

Application filed July 3, 1923. Serial No. 649,240.

To all whom it may concern:

Be it known that I, JEAN SERRE, a citizen of France, and a resident of Le Bouscat-Bordeaux, Gironde Department, France, have invented certain new and useful Improvements in Apparatus for Distributing Pasty Soap; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Known apparatus of numerous types are in use for distributing soap in the powdered state, but these devices do not afford entire satisfaction because it is a difficult matter to reduce the soap to powder, so that under practical conditions these apparatus do not deliver soap in powder but in lumps of various sizes, and this results in a considerable waste of material. Further, the apparatus requires a somewhat complicated internal mechanism which frequently operates in a defective manner and which also increases the cost price.

In order to obviate such drawbacks, I propose to distribute soap in the pasty condition and delivered in very thin layers or slices, instead of powdered soap.

For this purpose I have devised an apparatus, the object of this invention, consisting essentially of a box or main receptacle having a slot formed in the bottom and within which is provided a soap-impelling device such as a spindle having blades or paddles which is actuated by a handle or knob disposed at the exterior of the receptacle, and in this manner the soap can be fed out through the said slot in the shape of very thin slices.

In order to oblige the soap to issue from the slot, I further provide a weight which bears upon the column of soap and exerts a vertical pressure thereon. The edge of the said slot can be slightly upturned so as to present a certain inclination, so that it may readily penetrate into the pasty soap, whereby the cutting of the soap will be facilitated. The cover should be readily placed on and removed from the body, and to this end the cover can be fitted by means of a bayonet joint.

The following description and the appended drawings given by way of example set forth this invention.

Figs. 1 and 2 are respectively a front and a side view of the apparatus.

Fig. 3 is a vertical section of the distributing device.

Fig. 4 is a partial section on the line X—X of Fig. 3.

Fig. 5 is a section on the line Y—Y.

Fig. 6 is a vertical section on the line Z—Z of Fig. 5.

The apparatus comprises a box a which is composed for example of a cylindrical body having a slot i in the bottom and provided with a cover j which is fitted by means of a bayonet joint j^1. The box is provided with a coaxial rod or spindle b having blades or paddles g secured to the lower part, for instance three in number, and having at the upper end a handle f.

One fills the box a with soap a^1 in the pasty state and the column of soap is weighted by means of a weight a^2 which may be laterally engaged with the rod b by a slot a^4 in the said weight, Fig. 4. The edge i^1 of the slot i is somewhat upwardly inclined so as to penetrate readily into the lower part of the column of pasty soap and to cut the soap into thin slices. The other edge of said slot might also be inclined, but in the contrary direction to the edge i^1.

It will be noted that the plastic mass is continually forced between the blades g which divide the bottom of the soap column into sectors, and as the blades are rotated the edge i' shaves from the bottom of the column successive wafer-like slices; in the apparatus shown three such wafers of substantially the same size and shape. These wafers or slices issue through the slot against a guide or shield, here shown as curved. The curve of the shield not only directs the slice to a plate or receptacle d but also curls the slice so that it can be easily grasped by the fingers.

In all such arrangements, when the apparatus contains soap at whatever height, it is simply necessary to slowly rotate the wing-knob f in order to act upon the lower part of the soap column by means of the blades g which drive the pasty mass before them, whereby the soap shall be cut into thin slices which issue from the said slot.

The apparatus may be made of sheet iron,

tin plate, aluminium and the like, and may have the appearance as shewn in Figs. 1 and 2. The apparatus has in all cases a very simple form and can be readily transported and placed upon a wall or like surface, to which it can be attached by any suitable means.

Obviously, the said apparatus is susceptible of all desired modifications without departing from the principle of the invention.

What I claim is:

1. Apparatus for distributing pasty or plastic soap, which comprises a receptacle for the soap, a slot formed in the bottom of the receptacle, an inclined flange or cutting edge at one side of said slot, blades in the bottom of the receptacle, means to maintain paste filled between the blades from the column thereabove in contact with the bottom of the receptacle and edge, and means to rotate the blades.

2. Apparatus for distributing pasty or plastic soap, which comprises a receptacle for the soap, a slot formed in the bottom of the receptacle, an inclined flange or cutting edge at one side of said slot, blades in the bottom of the receptacle, means to maintain paste filled between the blades from the column thereabove in contact with the bottom of the receptacle and edge, means to rotate the blades, and means to curl the slice issuing from said slot.

3. Apparatus for distributing pasty or plastic soap, which comprises a receptacle for the soap, a slot formed in the bottom of the receptacle, an inclined flange or cutting edge at one side of the slot, blades in the bottom of the receptacle, means to maintain paste filled between the blades from the column thereabove in contact with the bottom of the receptacle and edge, means to rotate the blades, means to curl the slice issuing from said slot and a receptacle onto which said slice is delivered from said curling means.

4. An apparatus for distributing pasty soap, comprising a receptacle adapted to contain a certain amount of pasty soap, a slot formed in the bottom of the said receptacle, a slightly raised flange or edge coextensive with said slot, a vertical spindle, blades or paddles mounted on the lower part thereof, a knob disposed on the top of the said spindle for rotating the same, and a weight engaging the said spindle and pressing upon the soap, a cheek disposed at the exterior of the said receptacle and below the said slot for guiding the soap slices.

5. An apparatus for distributing pasty soap, comprising a receptacle adapted to contain a certain amount of pasty soap, a slot formed in the bottom of the said receptacle, a slightly raised flange or edge coextensive with said slot, a vertical spindle, blades or paddles mounted on the lower part thereof, a knob disposed on the top of the said spindle for rotating the same, and a weight engaging the said spindle and pressing upon the soap, a cheek disposed at the exterior of the said receptacle and below the said slot for guiding the soap slices, and a removable cover.

In testimony that I claim the foregoing as my invention, I have signed my name hereto.

JEAN SERRE.