Aug. 30, 1949. T. SUMNER 2,480,271

SOAP DISPENSER WITH RECIPROCATING CUTTER BLADE

Filed Feb. 27, 1945

Fig. 1.

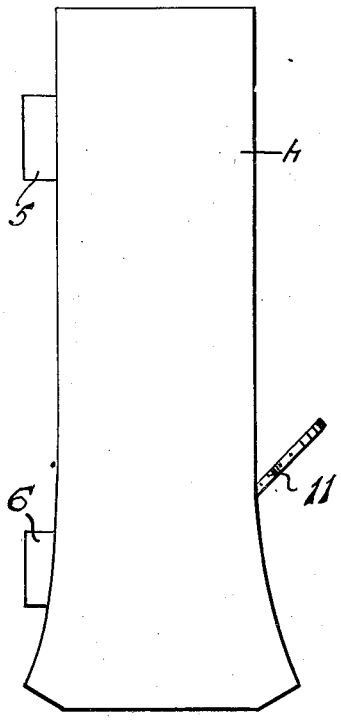


Fig. 2.

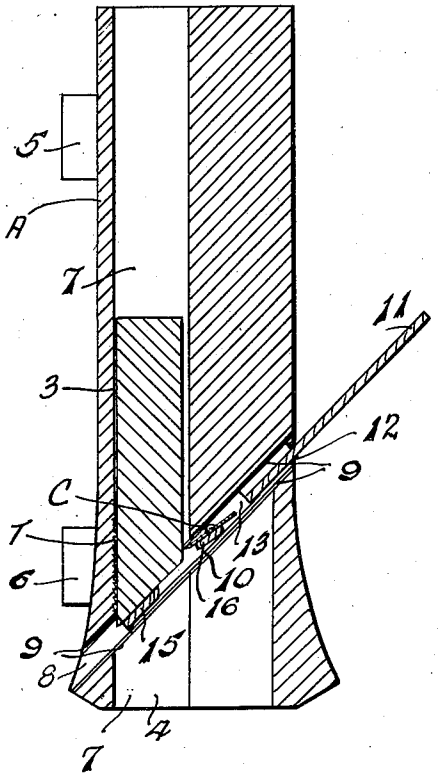
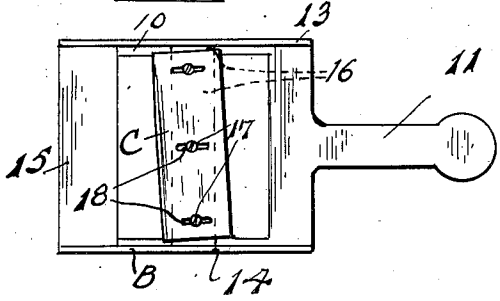


Fig. 3.



INVENTOR.
Thomas Sumner

BY
L. M. Sumner

Patented Aug. 30, 1949 2,480,271

UNITED STATES PATENT OFFICE

2,480,271

SOAP DISPENSER WITH RECIPROCATING CUTTER BLADE

Thomas Sumner, Salt Lake City, Utah

Application February 27, 1945, Serial No. 579,985

1 Claim. (Cl. 146—62)

1

My invention relates to a new and improved type of soap dispenser and has for its objects to provide a soap dispenser which uses elongated sticks of solid soap and which shaves off a thin cutting from one end of the stick with each stroke of the operating blade.

A further object is to provide a soap dispenser which employs the use of a vertical column of solid or stick soap carried in a suitable container and adapted to have a small shaving or slice cut away from the bottom thereof as desired or required by the user, the stick of soap being held in place by a multiplicity of corrugations or teeth like protrusions adapted to engage one side of the soap stick when it is being cut the relative position of the cutting knife being such that there will be no tendency of the soap stick to raise or climb up the opposite wall of the container but should there be any such tendency then it will be eliminated by the corrugations or teeth.

A still further object is to provide an adjustable blade for soap cutters which may be shifted to cut a very thin shaving of a thicker slice from the bottom of a solid column of soap.

A still further object is to provide a soap dispenser wherein the cutting blade is set at an angle with the soap resting downwardly by the force of gravity so that with each backward movement of the cutting blade the soap will by the force of gravity drop down for each succeeding forward cutting stroke of the blade.

These and many other objects I accomplish with the device illustrated in the accompanying drawings in which similar numerals and letters of reference indicate like parts throughout the several views and as described in the specifications forming a part of this application and pointed out in the appended claim.

In the drawings Figure 1 is a side view of the soap dispenser. Figure 2 is a vertical section thereof with the cutting blade withdrawn for starting another stroke. Figure 3 is a plan view of the cutter blade and its operating frame and handle.

In the drawings in which I have shown the preferred embodiment of my invention I have shown the main body of the soap dispenser as a square column A, having extended lugs 5 and 6 formed on the back side thereof by which the entire device may be supported on any wall, behind a wash basin or other places where soap is needed. The vertical column A is provided with a vertical opening 7 therein extending from the top throughout its entire length and this is the chamber used for the soap sticks. Diagonally across

2

the column and near the base thereof I provide a guide channel or slot 8 on an angle of about forty-five degrees and this angle carries metal channel tracks at each edge thereof in which the cutter blade framework B is operated. However if the material from which the column is of sufficient hardness to stand wear the metal channel tracks 9 may be dispensed with the framework carried in the guide channel slot 8. A suitable stop will be used to limit the forward and backward movement of the blade support framework B. The cutter blade framework shown in plan view in Figure 3 consists of a flat body 10 having a handle 11 extended from one end by which it is operated the handle being adapted to be operated through a smaller slot 12 in the top end of the operating channel slot 8. Both edges of the body 10 are bent upward to form guide runners 13 and 14 along the sides of the body to keep the blade in proper position and to operate in the tracks 9 or channel 8. Transversely across the end of the framework B I provide a slightly raised stop bar 15 adapted to act as a retainer to hold the soap stick in place when the blade is being withdrawn for another cut and set sufficient distance down from the top edges of the runners 13 and 14 to allow the soap stick to drop sufficient distance for a full cut to be taken therefrom if desired. Transversely across and spaced from this bar 15 I form a blade guide and adjustment bar 16 to which the cutter blade is adjustably attached. This bar 16 is provided with spaced adjustment screws 17 adapted to be passed through slots 18 in the blade C to permit forward or rearward movement of the cutter blade as desired depending upon the thickness of the soap shavings desired. The bar being set on a slope the more the blade is moved toward the soap the higher the cutting edge is elevated thereby cutting a thicker shaving from the soap stick S. There must be some space between the bar 16 and the stop bar 15 to permit free dropping of the soap chips or shavings through the lower open end 4 of the opening 7. The blade C cuts better when set at a straight angle to the soap so that one end of the blade engages the soap first to give it a draw or sliding cut so the blade is preferably set on the bar 16 at an angle to the true face of the soap stick S. This may be done either by the positioning of the set screws 17 or the entire bar may be formed at an angle to the side runners 13 and 14. A suitable cover may be provided for the top of the device if desired. Along the vertical back wall 3 of the opening 7 near the lower end where the cutter blade is operated I provide

serrations or teeth T adapted to grip the soap stick when it is being cut to hold it from sliding upwardly in the opening 7.

Having thus described my invention, I claim:

A soap dispenser comprising a hollow vertical column having a vertical recess through the back portion thereof near the lower end thereof wider than the vertical recess through the column; a column of soap carried in the vertical recess; a slanting guide frame having channels on each edge thereof set through the column at an angle and near the base thereof; a blade framework carried in said channels, having a handle extended out sufficient distance to force the cutting blade through the end of the column of soap; a cutting blade having slots therein; screws in said blade framework to adjustably mount the cutting blade in the framework at an angle to the column of soap and to the framework; a flat end on the blade framework adapted to support the column of soap when the blade is withdrawn for the next cut; and notches formed on the inside face of the recess toward which the cutting blade thrusts said notches to prevent the soap from sliding up the recess when engaged by the cutting blade.

THOMAS SUMNER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
335,500	Bullock	Feb. 2, 1886
366,920	Bullock	July 19, 1887
534,117	Malzacher	Feb. 12, 1895
879,780	Lewis	Feb. 18, 1908
1,255,064	Sunden	Jan. 29, 1918

FOREIGN PATENTS

Number	Country	Date
301,693	Great Britain	Dec. 6, 1928
462,975	France	Dec. 5, 1913