

J. F. CRAVEN.
 PARAFFIN CONTAINER AND SHAVER;
 APPLICATION FILED NOV. 17, 1911.

1,036,968.

Patented Aug. 27, 1912.

Fig. 1.

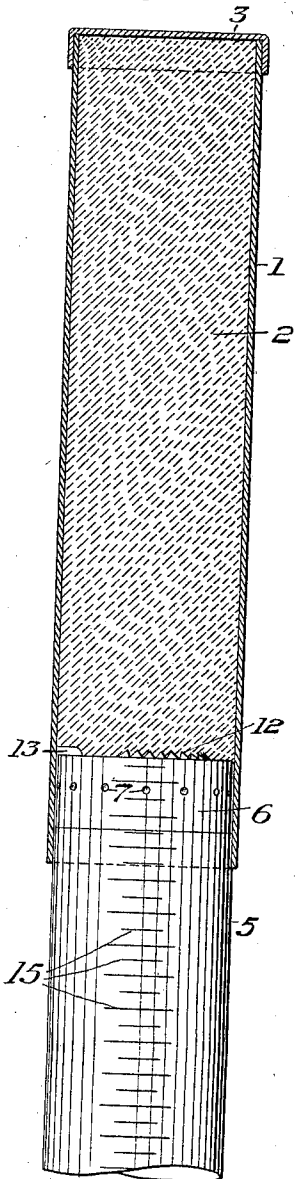


Fig. 2.

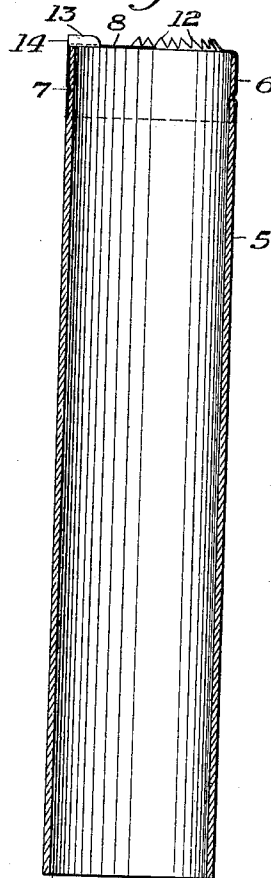
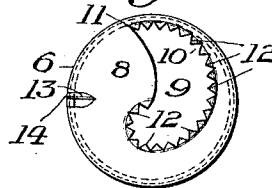


Fig. 3.



WITNESSES

E. L. Hyde
W. C. Lyon

INVENTOR

James F. Craven
By Frank W. Whites
Attorney

UNITED STATES PATENT OFFICE.

JAMES F. CRAVEN, OF PITTSBURGH, PENNSYLVANIA, ASSIGNOR TO CRAVEN ENGINEERING COMPANY, OF PITTSBURGH, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

PARAFFIN CONTAINER AND SHAVER.

1,036,968.

Specification of Letters Patent.

Patented Aug. 27, 1912.

Application filed November 17, 1911. Serial No. 660,930.

To all whom it may concern:

Be it known that I, JAMES F. CRAVEN, a resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Paraffin Containers and Shavers, of which the following is a specification.

This invention relates to means for removing wax, paraffin, tallow, chocolate, soap, or similar solid substances from storing and transporting receptacles and for simultaneously shaving, shredding or comminuting the same.

The device is intended more particularly for shaving or shredding paraffin or similar waxes which are used for various domestic purposes, and for simultaneously removing the same from a convenient package or receptacle in which the same is held for storage and transportation. The invention, however, is not limited to this particular use, but the devices are adapted for various other substances than paraffin wax, such as soap, chocolate and the like.

The invention comprises a particular form of shaving or shredding device comprising a tubular holder with the shaving or shredding device carried thereby and adapted to telescope into a slightly larger tubular container in which the wax or other substance has been molded, that is, into which it has been poured when in a molten or semi-molten condition; all as hereinafter described and claimed.

In the accompanying drawing Figure 1 is a longitudinal section through the container showing in side view the shaving or shredding device telescoped therinto and in the act of removing material from the container; Fig. 2 is a longitudinal section through the shaving or shredding device on an enlarged scale; and Fig. 3 is an end view of the same.

The container for the wax or other substance comprises a suitable tube 1, preferably formed of paper or paste board for the sake of cheapness and adapted to have the body of wax 2 molded therein, that is, by pouring the same when in a molten or liquid or semi-liquid condition into said container. The ends of the container are adapted to be

closed by suitable means, such as removable paper caps 3 or other suitable means, in order to exclude dirt while transporting and storing the package.

The shaving or shredding device comprises a suitable open ended tubular holder 5, also preferably a paper tube, having suitably secured to one end thereof, in a manner to rotate therewith, the shaving or shredding device, which is shown in the form of a flat sheet metal cap 6, which at a plurality of points 7, is indented or crimped into or onto the tubular holder 5 and having its head or flat end face 8 provided with a suitable opening 9 having a cutting edge 10. The opening 9 is of rather peculiar form, having the cutting edge starting approximately at the center of the head or disk and disposed in the form of a spiral curve extending outwardly to the periphery of said disk, the curve being so arranged that the cutting edge extends in the spiral curve from the periphery at 11 to a point beyond the center and then curves back to the center of the disk, as shown. This cutting edge 10 is forced outwardly with reference to the cap 6 so as to engage the substance being cut and it may either be formed as a continuous uninterrupted cutting edge or one provided with projections 12, as shown, so as to practically shred or grate the contents of the container. Preferably also another slight cutting edge 13 is arranged near the periphery of the disk in order to assist in the cutting of the material at the periphery of the mass contained in the container and having a straight edge 14 to clean or shave off such material as might otherwise cling to the interior surface of the container and be lost.

In use the wax or other substance is molded in the container 1 and the latter is then closed up for transportation, storage and sale by having the end cap or caps 3 placed thereon. The shaving or shredding device is entirely separate from the container, but can be sold with the package or as a separate article. When it is intended to use the wax or other substance one of the caps 3 is removed and the shaving or shredding device is inserted into the end of the container 1 with the disk 6 inwardly and then the con-

tainer and shaving or shredding device are relatively rotated in the proper direction, the shaving device rotating in a counter-clockwise direction in Fig. 3. This has the effect of shaving or shredding the contents of the container which escape through the hollow open ended shredding device, or can be held in the same and emptied therefrom into any suitable vessel in which it is to be used. It will be noticed that since the cap 8 at the end of the shaving or shredding device is flat and the cutting edge projects outwardly therefrom, the device is adapted to shave or shred the last traces of material from the cylindrical container by sufficient relative rotation of these parts. On account of the spiral form of the cutting edge the shaving or shredding device automatically feeds itself into the material in the container and it does not require pressure to produce this forward feed. This is for the reason that by arranging the edge 10 or projections 12 on the spiral curve shown every portion of the edge projects forwardly on an incline into the material or is sidewise directed toward the same in a manner to shave or slice it. Preferably the outside of the tubular holder 5 is provided with graduation marks 15, which, in connection with the end of container 1, will indicate when the desired amount of material has been removed.

The shredding device is made of a size to fit fairly closely in the container, and both container and shredding device of course must be circular. This simple device is effective for removing from the container practically every particle of wax or other material contained therein. The shaving or shredding device is substantially of the same length as the container and consequently after about one-half or more of the contents have been removed from the container there is only a short end of the shredding device protruding for grasping and as this may not give a good hold the user will merely remove the opposite cap 3 from the container 1 and insert the shaving or shredding device from that end. In other words, the material is removed one-half from one end of the package and the other half from the other end. Between the times when the contents of the container are desired for use the package can be closed against the entrance of dirt and foreign material by merely placing the caps on the ends thereof.

This invention permits of putting up wax, tallow, paraffin, chocolate and the like in very inexpensive packages and in a manner to protect the contents from dirt or other impurities while transporting, storing and handling, and which in conjunction with the very simple shredding or shaving device enables the contents to be readily removed with a minimum amount of labor and to si-

multaneously reduce the same to very thin shavings or shreds in the very best possible condition for all kinds of uses.

The shaving or shredding device itself is of very simple and inexpensive construction. The tubular holder 5 is preferably made of paper or card board while the shaving cap is stamped out readily, with either straight or serrated edge, by ordinary dies and can be readily applied to the holder by ordinary crimping mechanism. The container, as well as the shaving or shredding device, can be produced at a very low cost.

The invention is applicable not only for putting up paraffin, but all other kinds of wax or waxy substances, soaps or other materials of a similar consistency.

What I claim is:

1. A shaving or shredding device for paraffin, chocolate or like substances, comprising a holder adapted to be rotated, and a flat disk carried at the end of said holder and provided with an opening having a cutting edge projecting beyond the end of the holder and extending from its periphery to its center in a spiral curve.

2. A shaving or shredding device comprising a holder adapted to be rotated, and a disk carried thereby, said disk being cut out to form an opening and having a curved cutting edge provided with teeth, said edge extending from one side of the disk near its periphery to beyond the center thereof and thence to the center and projecting beyond the end of the holder.

3. A shaving or shredding device comprising a paper tube adapted to be rotated and carrying a sheet metal cap provided with an opening having an edge extending from its periphery to the center thereof on a continuous spiral curve, the metal of said cap being bent outwardly therefrom to form a cutting member.

4. A shaving or shredding device comprising a paper tube adapted to be rotated, and a flat, transversely disposed sheet metal disk carried at the extreme end thereof and provided with a cutting edge extending from its periphery to its center on a spiral curve and at its periphery with a side cleaning cutter, said cutting edge and side cleaning cutter both projecting beyond the end of the paper tube.

5. The combination with a tubular container open at both ends, of a shredder arranged to telescope into said container and at its extreme end carrying a disk provided with a cutting edge.

6. The combination with a tubular container open at both ends, of a shredder for coöperation therewith comprising a tube arranged to be telescoped into either end of the container and carrying a shredding device at one end, and being provided exter-

nally with graduations, either end edge of
said container being arranged to coöperate
with said graduations to indicate the quan-
tity of material shredded or shaved from
5 said container.

7. The combination with a tubular con-
tainer, a removable cap for closing each end
thereof, and a shredder comprising a tube
arranged to telescope into said container,

and a shaving or shredding device carried 10
thereby.

In testimony whereof, I have hereunto set
my hand.

JAMES F. CRAVEN.

Witnesses:

E. L. HYDE,
F. W. WINTER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
