

W. CHRYSLER.

Fruit Jar.

No. 51,020.

Patented Nov. 21, 1865.

Fig. 1.

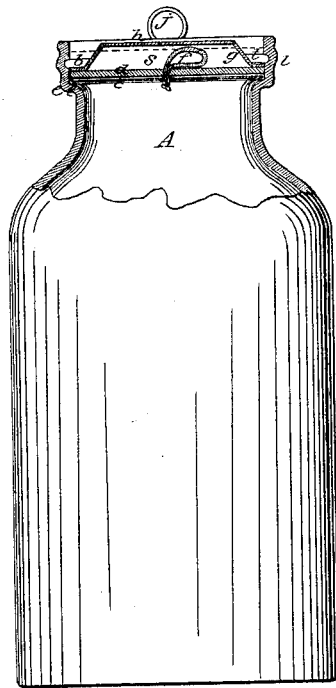
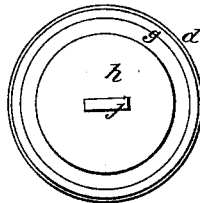


Fig. 2.



Witnesses:

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his attys

UNITED STATES PATENT OFFICE.

WARREN CHRYSLER, OF LOCKPORT, NEW YORK.

IMPROVEMENT IN STOPPERS FOR FRUIT-JARS.

Specification forming part of Letters Patent No. 51,020, dated November 21, 1865.

To all whom it may concern:

Be it known that I, WARREN CHRYSLER, of Lockport, in the county of Niagara and State of New York, have invented new and useful Improvements in Stoppers for Fruit-Cans; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a central vertical section of the top of a can with my improved stopper, the rest of the can being shown in elevation. Fig. 2 is a plan of the stopper.

Like letters designate corresponding parts in both figures.

My invention consists in constructing a stopper for fruit cans or jars composed of disks of tin and pasteboard, or their equivalents, with a cover over these disks of tin or other suitable material, for the purpose of economizing in the use of wax or other material for sealing, and also to protect the cord-loop which is attached to said disks; and, second, of a stopper thus constructed in combination with an annular groove in the neck of the can or jar, which, being filled with the wax, holds the latter securely in place, and renders the jar hermetical.

In the annexed drawings, A represents an ordinary fruit can or jar, which may be made of tin, glass, or other suitable material, having a small annular groove, *b*, formed in the inside of the neck of the same just above the periphery of the stopper; *c d*, disks of tin and pasteboard, respectively, which fit closely in the neck and rest on the shoulder or ledge *e* of the can or jar. Secured to these disks at their center is the cord *f*, which serves to keep the disks together and also to form a loop by which they are held and inserted in place and removed from the can. Above these disks is the cover *g*, made of tin or other suitable material, and so constructed as to have a raised or elevated central portion, *h*, forming a recess or open space, *s*, beneath it and above the disks *c d*. This cover may be easily and cheaply formed from a single piece by stamping.

The use and operation of my improvements thus constructed are as follows: The can or jar being filled, the disks *c d* are inserted in

the neck of the same so as to rest upon the shoulder *e*, the former and metallic one being beneath, which prevents the juice of the fruit from being absorbed by or permeating the pasteboard *d* and thus destroying its texture. The disk *d* being of a yielding material, may be cut a little larger in diameter than the metallic one, so as to fit tightly and pack against the neck of the can, and thereby prevent the melted wax from entering the can in sealing and mixing with its contents. These disks being in position, the cover *g* is then placed upon them, and pressed down by the ring *j* on its top, while the melted wax or other sealing material is poured into the annular depression formed between the elevated portion *h* of the cover and the neck of the can, such a quantity only being required as is necessary to fill the annular groove *b* in the neck of the can, as represented at *i*, and by red line in Fig. 1. The wax forming in this groove is by the same prevented from becoming loosened and displaced, even if it should not adhere to the neck of the jar, and consequently the stopper is securely held in place, and the can or jar hermetically sealed.

Were no such cover as *g* employed, it would become necessary to cover the entire surface of the top of the stopper, and then, in case the cord should be accidentally disturbed, as is frequently done, it would have a tendency to loosen the sealing material around it, and thus open a passage for the air into the can. To open a can thus sealed only requires a loosening of the wax, which is easily done, when the cover and disks are successively removed without the least difficulty by means of the ring *j* and loop *f*.

The advantages of my improvements may be briefly enumerated as follows: Durability, the same stopper being capable of being used an indefinite number of times, requiring only, in such cases as necessary, the substitution of a fresh disk of pasteboard; and as a result thereof, economy in the saving of the expense of corks, as well as of sealing material, the hermetical and perfectly secure sealing by means of the groove *b*, and the ease and facility in opening cans thus closed.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A stopper for fruit cans or jars, composed of the disks *c d*, or their equivalents, cover *g*, and loop *f*, or its equivalent, arranged and operating substantially in the manner described.

2. The annular groove *b*, in combination with a stopper, constructed as described, substantially as and for the purpose set forth.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

WARREN CHRYSLER.

Witnesses:

DANIEL PRICE,

FRED HUNTING.