T. J. JACKSON.

DEVICE FOR SEALING FRUIT JARS.

APPLICATION FILED DEC. 12, 1918.

1,320,863. Patented Nov. 4, 1919.

Fig. 1.

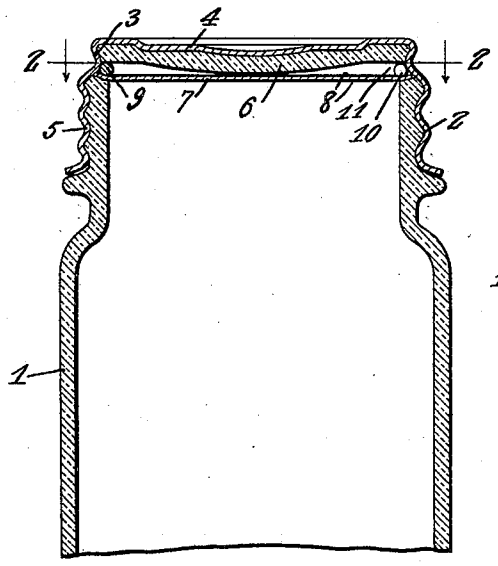


Fig. 2.

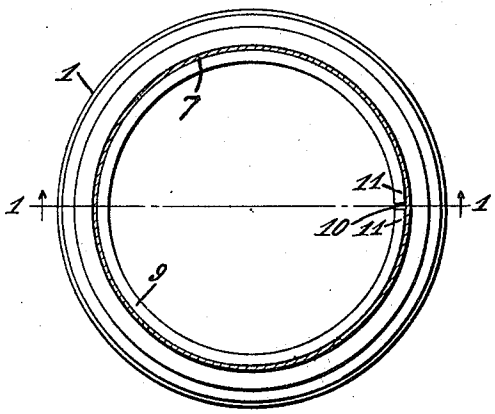
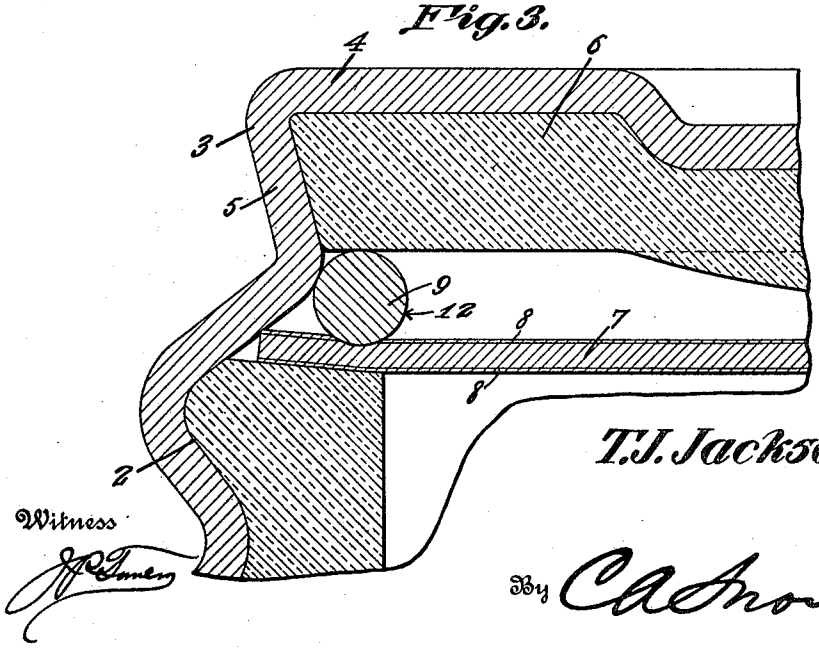


Fig. 3.



Witness

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UNITED STATES PATENT OFFICE.

THOMAS J. JACKSON, OF CINCINNATI, OHIO.

DEVICE FOR SEALING FRUIT-JARS.

1,320,863. Specification of Letters Patent. Patented Nov. 4, 1919.

Application filed December 12, 1918. Serial No. 266,446.

To all whom it may concern:

Be it known that I, THOMAS J. JACKSON, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Device for Sealing Fruit-Jars, of which the following is a specification.

It is the object of this invention to provide novel means for sealing a fruit jar or like receptacle, without resorting to the use of unsanitary rubber washers or gaskets.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that, within the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in longitudinal section, a receptacle whereunto the device forming the subject matter of this application has been applied; Fig. 2 is a transverse section on the line 2—2 of Fig. 1; and Fig. 3 is a detail enlarged from Fig. 1.

The numeral 1 marks a receptacle, such as a fruit jar, having threads 2 on its neck. A lid 3 is provided, and includes a top 4 and a depending flange 5, the flange 5 being adapted to coöperate with the threads 2 on the receptacle 1. A plate 6 of glass or crockery ware may be held in the lid 3 in abutment with the top 4, or, if desired, the plate 6 may be omitted. The structure above described constitutes a common fruit jar of the Mason type.

In carrying out the invention, an imperforate disk 7, which may be made out of card board, or any other absorbent material, rests on the upper end of the receptacle 1, within the flange 5 of the top 4. The disk 7 is coated with fusible material indicated at 8, this fusible material being paraffin, if desired. A ring 9 rests on the layer of material 8 on the disk 7 and fits closely within the flange 5, the ring being divided as shown at 10 to form separable ends 11. The ring is of circular section as indicated at 12.

In practical operation, when the lid 3 is threaded down in place, the top 4 of the lid coöperates with the ring 9 and presses the ring into the layer 8 of fusible material on the disk 7. The fusible material is heated by the contents of the receptacle, and cooperates with the ring 9 to effect an air-tight closure. Owing to the fact that the ring 9 is divided as shown at 10, to form the separable ends 11, the ring will tend to expand and to fit closely within the flange 5, when the lid 3 is threaded down to a firm seat on the ring. The general construction of the device is such that an unusually secure sealing of the receptacle is afforded, the common rubber ring or gasket being dispensed with, and there being nothing exposed about the periphery of the receptacle 1 or its lid 3, which is subject to deterioration.

Since the ring 9 is of circular cross section, as shown at 12, the ring tends to embed itself in the paraffin layer 8 and in the disk 7 thereby effecting a secure sealing of the receptacle. Again, the ring acts as a filler and serves to take up the space between the top 4 of the lid 3 and the upper end of the receptacle 1 due to irregularities in manufacture. The ring 9 may be used as a templet, for the purpose of laying out the disks 7 during the cutting thereof.

Having thus described the invention, what is claimed is:—

In a device of the class described, a receptacle; a lid comprising a top having a flange surrounding the receptacle and threaded thereon; a flat imperforate disk resting on the receptacle within the flange and having its periphery spaced inwardly from the outer surface of the receptacle; and a ring of circular cross section interposed between the disk and the top of the lid, the ring being divided to form sepa-

rable ends, permitting an expansion of the ring and a close fitting of the ring within the flange, when the lid is threaded to a seat on the receptacle, the ring engaging the disk throughout restricted area of less extent than the area of the end face of the receptacle.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

THOMAS J. JACKSON.

Witnesses:

WM. E. BEALL,

THOS. H. TUDOR.

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