

No. 894,513.

PATENTED JULY 28, 1908.

J. P. LYON.
JAR CLOSURE.

APPLICATION FILED JAN. 21, 1907.

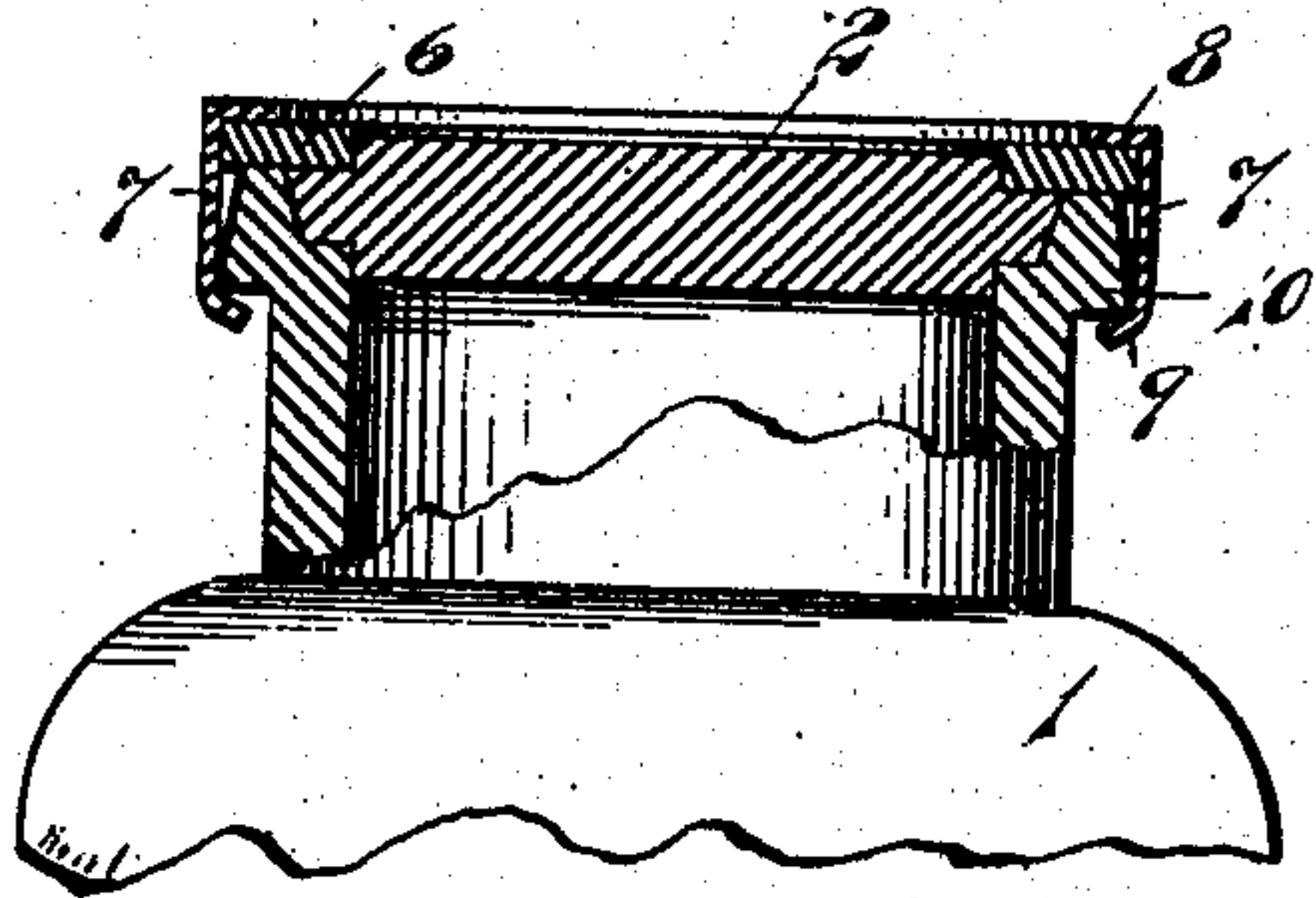


Fig. 1

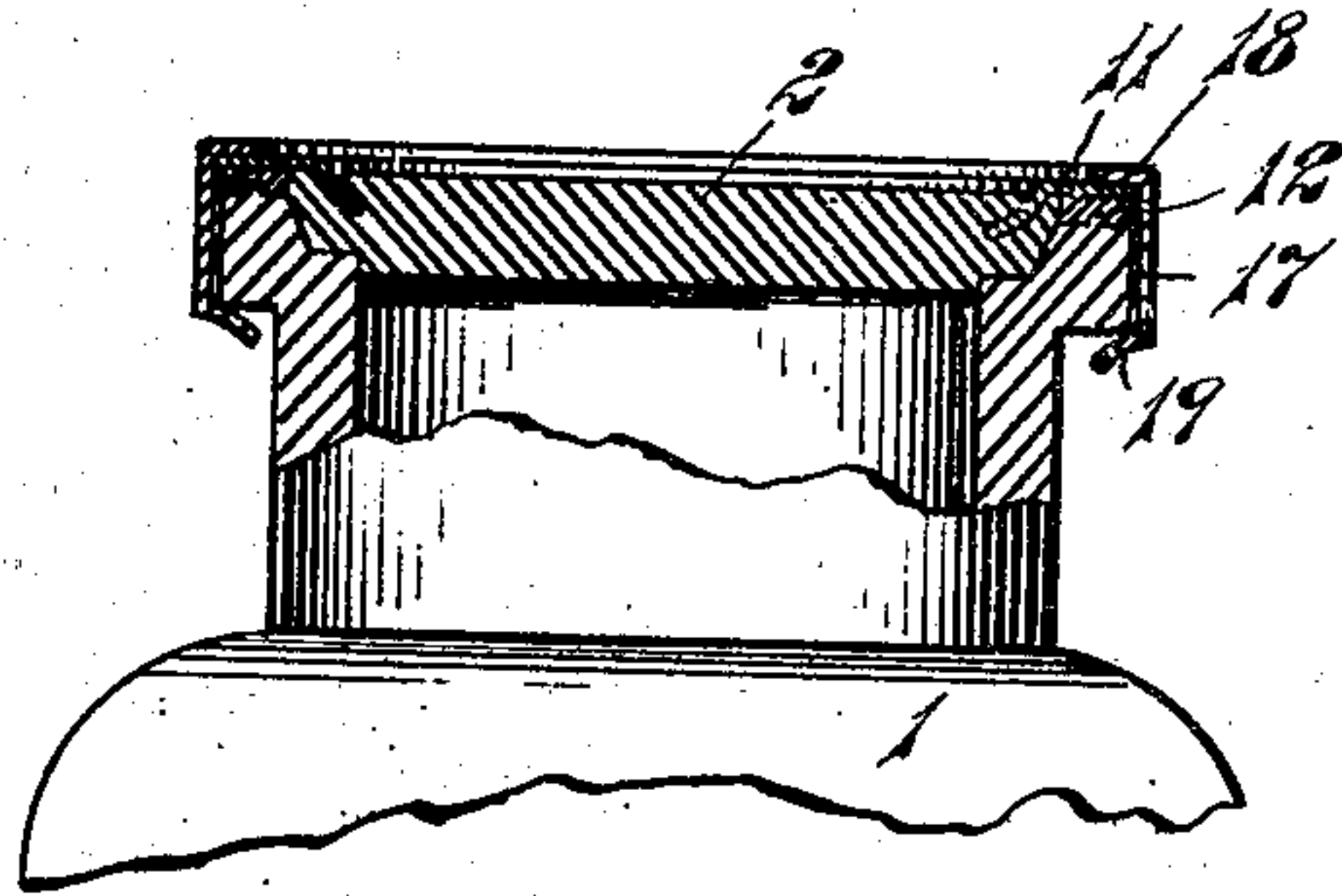


Fig. 2

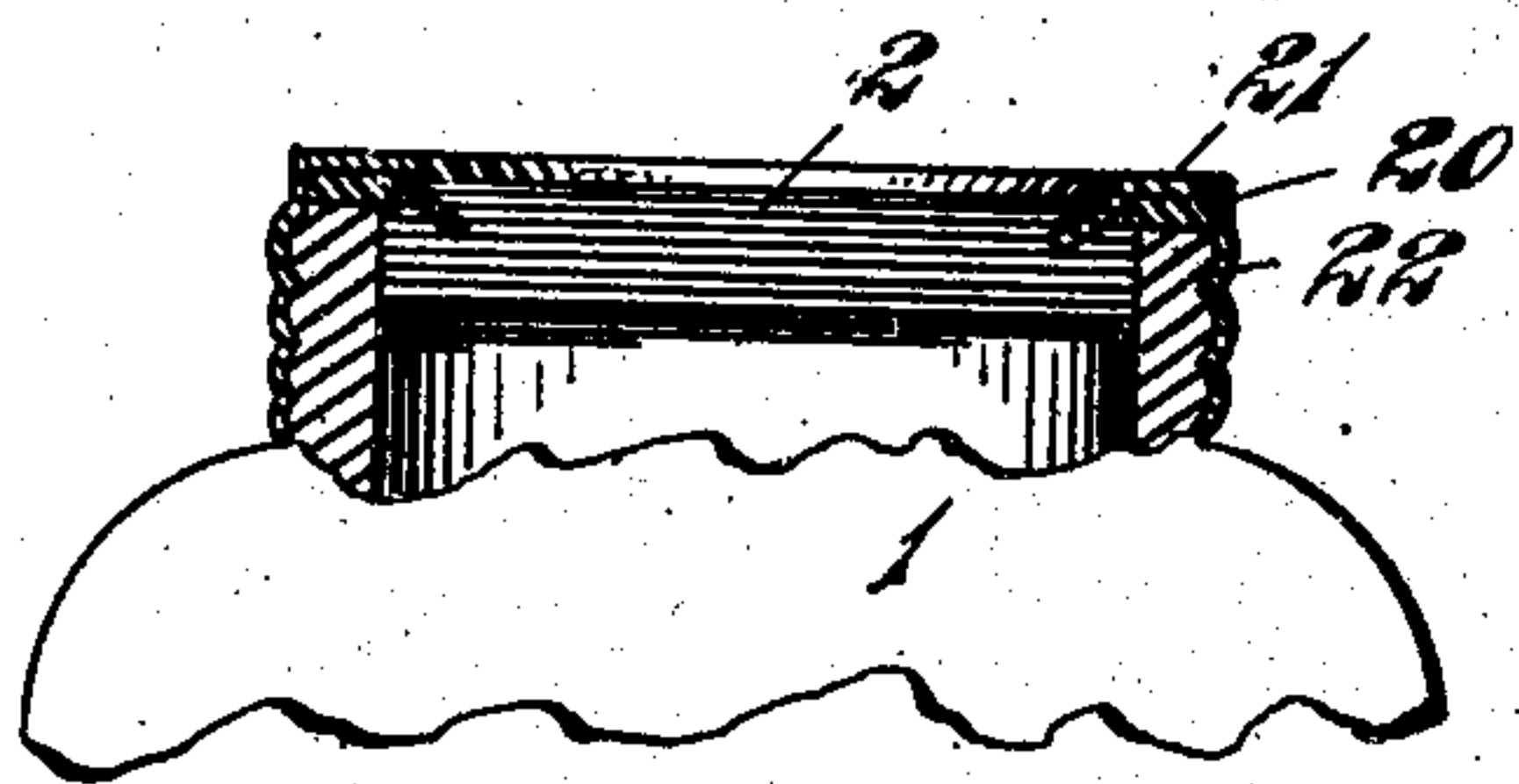


Fig. 3

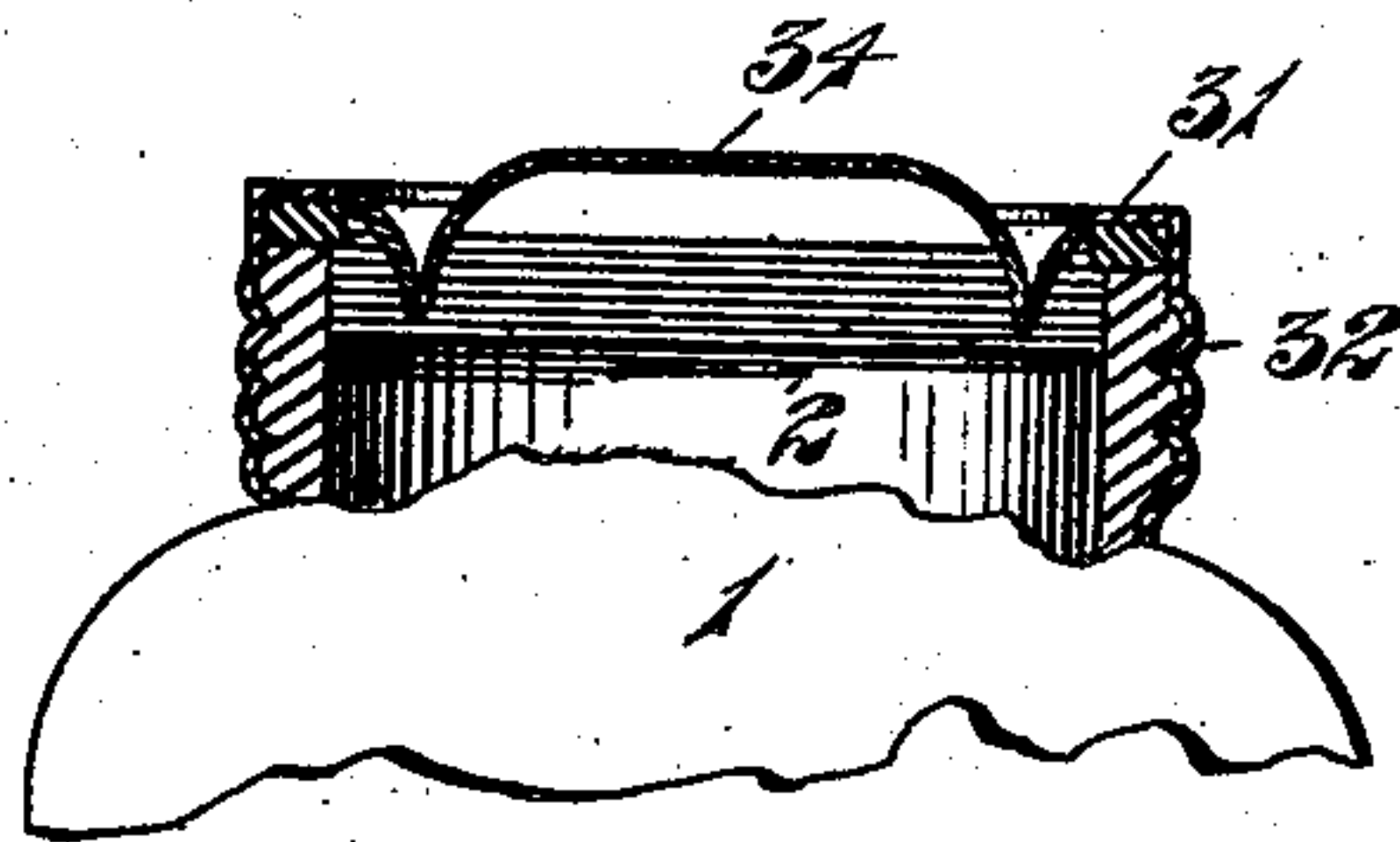


Fig. 4

WITNESSES

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JAR-CLOSURE.

No. 894,513.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JULIAN P. LYON, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Jar-Closures, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to jar closures; it has for its object an improved means of hermetically sealing a jar or other similar vessel.

The main feature of the invention consists in closing the mouth of the jar with a wax stopper, which is prevented from cleaving away from and leaving the walls of the jar by a flange that projects over the wax or sometimes into the wax.

In sealing jars with wax-plugs, it has been found experimentally that the edge of the plug is liable to cleave from the wall of the jar into which the plug fits, and that differences in temperature which expand and contract the contents of the jar, in time; and sometimes very quickly force an opening between the wax and the jar somewhere around the periphery of the plug. If, however, the plug be held securely to the jar at this point, so that instead of being the weakest point of the fastening, it is the strongest, and the expansion and contraction of the contents of the jar is caused to bend the plug at the center point instead of bending it at the edges, the plug remains in close sealing contact with the jar, and the sealing remains intact.

In the drawings:—Figure 1, is a sectional elevation of a jar and plug protected by a ring that is held to the mouth of the jar. Fig. 2, is a jar with a plug protected by a sheet metal ring. Fig. 3, shows a plug protected by a ring provided with a screw neck. Fig. 4 shows a jar with a plug protected by a ring and a screw necked holder therefor.

In all the forms shown, the jar 1 is sealed by a plug of wax 2, which is preferably poured into the mouth of the jar while in a molten condition and allowed to harden therein.

In the forms shown in Figs. 1, 2, 3, and 4, the wax plug is supposed to have been poured directly on the contents.

In the form shown in Fig. 1, the plug is held in place by a ring 6, and the ring is held by a band 7 with inturned flanges 8 turned

over the ring and inturned flanges 9 turned under a projection 10 on the neck of the jar.

In the form shown in Fig. 2, the wax plug 2 is held in place by a thin metal ring 11, which extends into the body of the wax and forms a complete seal between the ring 11 and the body of the plug 2. The ring 11 rests on a gasket 12, which may be of rubber or similar material, and the ring is held by a band 17, the upper flange of which 18 is turned over the ring 11, and the flange 19 is turned under the neck.

In the form shown in Fig. 3, the ring 21 of thin metal is made integral with a screw neck 22, which holds the ring 21 in place on a packing gasket 20. Flanges of the ring 21 extend into the wax plug 2.

In the form shown in Fig. 4, the sheet metal ring 31 overhangs, like an inturned flange, the mouth of the jar, being attached to the screw-threaded top of the jar by means of the complementarily threaded screw neck 32. This inner overhanging edge of the ring 31 engages over the peripheral edge of the dome piece 34 which is bent, intermediate its center and its periphery to the form shown, with its pointed edge sunk into the wax. Of course in the sectional figure but two points of this downwardly pointing part are shown. The expansion of the wax plug 2 under excessive heat of the contents of the jar is thus provided for in the normally unoccupied space at the top of the dome.

It should of course be understood that the several well known equivalents of wax may be used as a substitute therefor without departing from the intended scope of this invention.

What I claim is:—

1. In combination with a jar, a wax plug closing the mouth thereof, and a band held to the top of the jar and serving to hold said plug in place, substantially as described.

2. As a means for sealing jars, in combination with a wax plug adapted to rest peripherally upon a supporting portion of the jar mouth, an inwardly projecting collar engaging against the top of said plug to prevent its unintended displacement, substantially as described.

In testimony whereof, I, sign this specification in the presence of two witnesses.

JULIAN P. LYON.

Witnesses:

MAY E. KOTT,
CHARLES F. BURTON.