

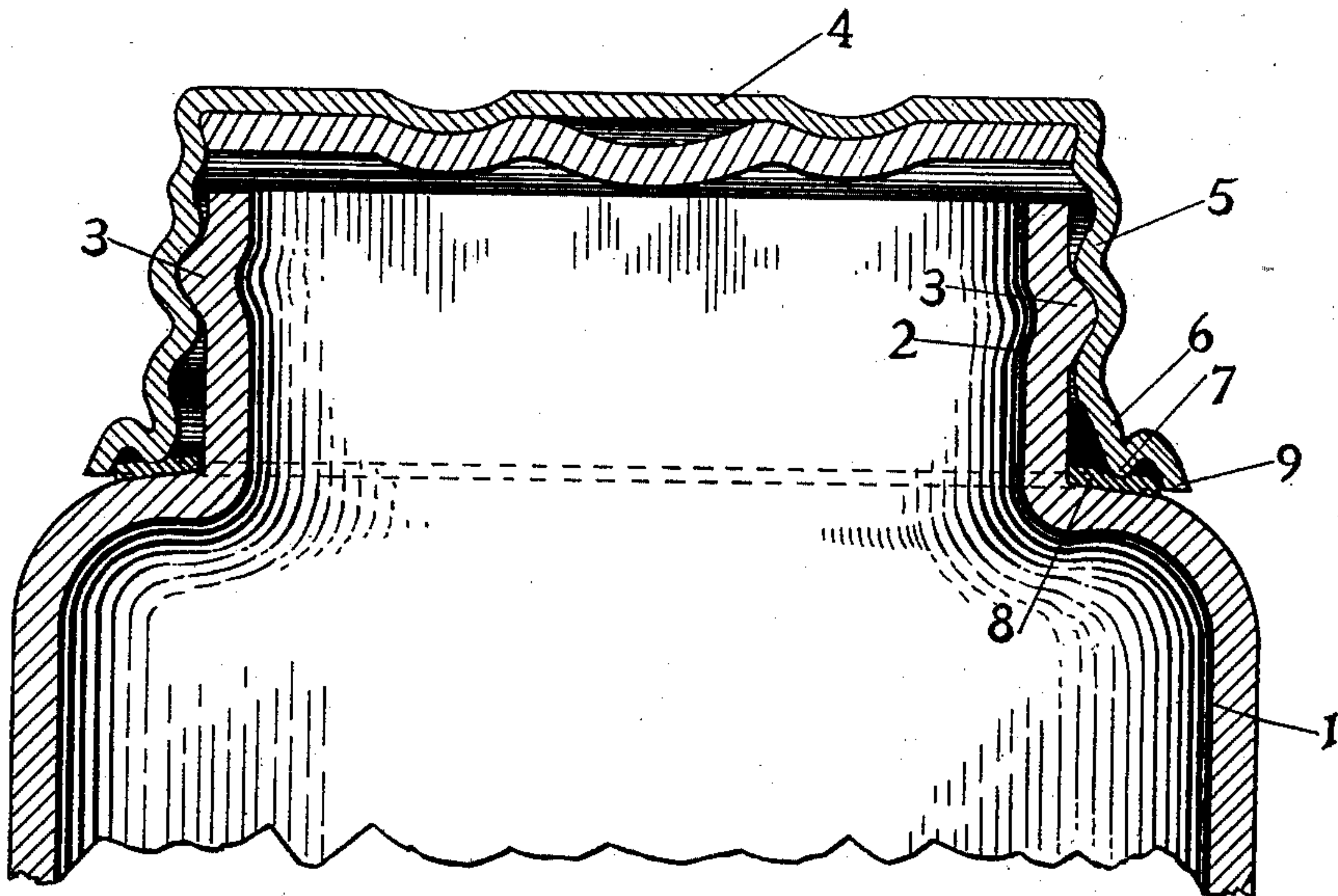
No. 716,951.

Patented Dec. 30, 1902.

DE WANE B. SMITH.
CAP OR COVER FOR JARS.

(Application filed Dec. 29, 1900.)

(No Model.)



WITNESSES

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DE WANE B. SMITH, OF DEERFIELD, NEW YORK.

CAP OR COVER FOR JARS.

SPECIFICATION forming part of Letters Patent No. 716,951, dated December 30, 1902.

Application filed December 29, 1900. Serial No. 41,440. (No model.)

To all whom it may concern:

Be it known that I, DE WANE B. SMITH, of Deerfield, in the county of Oneida and State of New York, have invented certain new and
5 useful Improvements in Caps or Covers for Jars; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled
10 in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

The object of my present invention is to
15 provide a cap or cover for a jar, particularly a fruit-jar, which, in connection with the packing employed, is adapted to always form a close and air-tight joint between the cover and the jar.

20 In the drawings, Figure 1 shows in cross-section the upper portion of an ordinary glass fruit-jar, such as is in common use and known as a "Mason's" fruit-jar, in connection with the cap of my improved construction and the packing, each of the latter being
25 shown in cross-section.

Referring to the reference-figures in a more particular description, 1 indicates the jar, which is preferably provided with a cylindrical neck portion 2, having on its outer
30 surface a screw-thread 3. The jar is open at the upper end of the neck portion 2. To the jar is applied the cap or cover 4, which preferably has a corrugated side 5, affording also the other member of a screw-thread
35 connection, as between the cap and the neck of the jar. The lower portion 6 of the flange of the cap is arranged to stand somewhat out from the neck of the jar, as
40 shown, and the cap is provided with the projecting edge 7, adapted to engage the rubber gasket or packing-ring 8, of other suitable elastic material, which surrounds the neck of the can and rests on the shoulder adjacent to
45 the neck. The projecting rim 7 is arranged, preferably, to engage the packing-ring substantially in the middle, as shown. In addition to the rib 7 there is provided a flange portion 9 on the lower edge of the cap adapt-

ed to inclose the packing-ring 8 and prevent
50 its displacement, as will be readily understood from the drawings. It will be noted that there is an indentation between the rib 7 and the flange 9, which does not engage the packing-ring 8, except perhaps under excess-
55 ive pressure.

In the caps for similar use heretofore provided the lower edge of the cap has engaged the packing-ring in such a manner that as
60 the cap is applied and screwed down with sufficient force to adapt it to close the joint air-tight the packing-ring 8 was allowed to and was prone to escape from its position
65 either to the outside of the cap or to crawl up the neck of the can within the cap—that is to say, this was liable to happen on portions of the circumference—which would make a poor joint. In the operation of my construction,
70 as above described, as the cap is screwed onto the neck the projecting rib 7 engages the packing-ring 8 on its upper surface, and immediately it becomes embedded in the packing-ring, forming a perfectly-tight joint
75 around the entire circumference of the cap and preventing it escaping either toward the neck or to the outside of the cap. The flange portion 9 of the cap also assists in preventing the packing-ring from escaping to the outside; but I do not rely as much on this as I
80 do on the projecting rib 7 becoming embedded in the packing-ring. The flange 9, however, serves to wholly inclose the packing-ring 8 and presents a better appearance.

This cap is particularly adapted for the screw-thread construction, which requires the
85 cap to be applied with a rotary motion, for it is particularly in this form of construction as heretofore made that the packing-ring, at least on a portion of the circumference, was liable to be displaced and make a defective
90 joint.

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

The combination of a can having a circular externally-screw-threaded neck and a later-
95 ally-extending shoulder surrounding the base of the neck, a flat elastic gasket surrounding the neck, resting on said shoulder

and a screw-cap having a rib 7 standing out
from the base of the neck and adapted to en-
gage the upper flat surface of the gasket, sub-
stantially in the middle, and also having a
5 flange 9 adapted to overhang the outer edge
of the gasket and prevent its escape, substan-
tially as set forth.

In witness whereof I have affixed my signa-
ture, in presence of two witnesses, this 22d
day of December, 1900.

DE WANE B. SMITH.

Witnesses:

E. WILLARD JONES,
S. A. BROWN.