

(No Model.)

G. W. GOMBER.
SEALING DEVICE.

No. 604,467.

Patented May 24, 1898.

Fig. 1

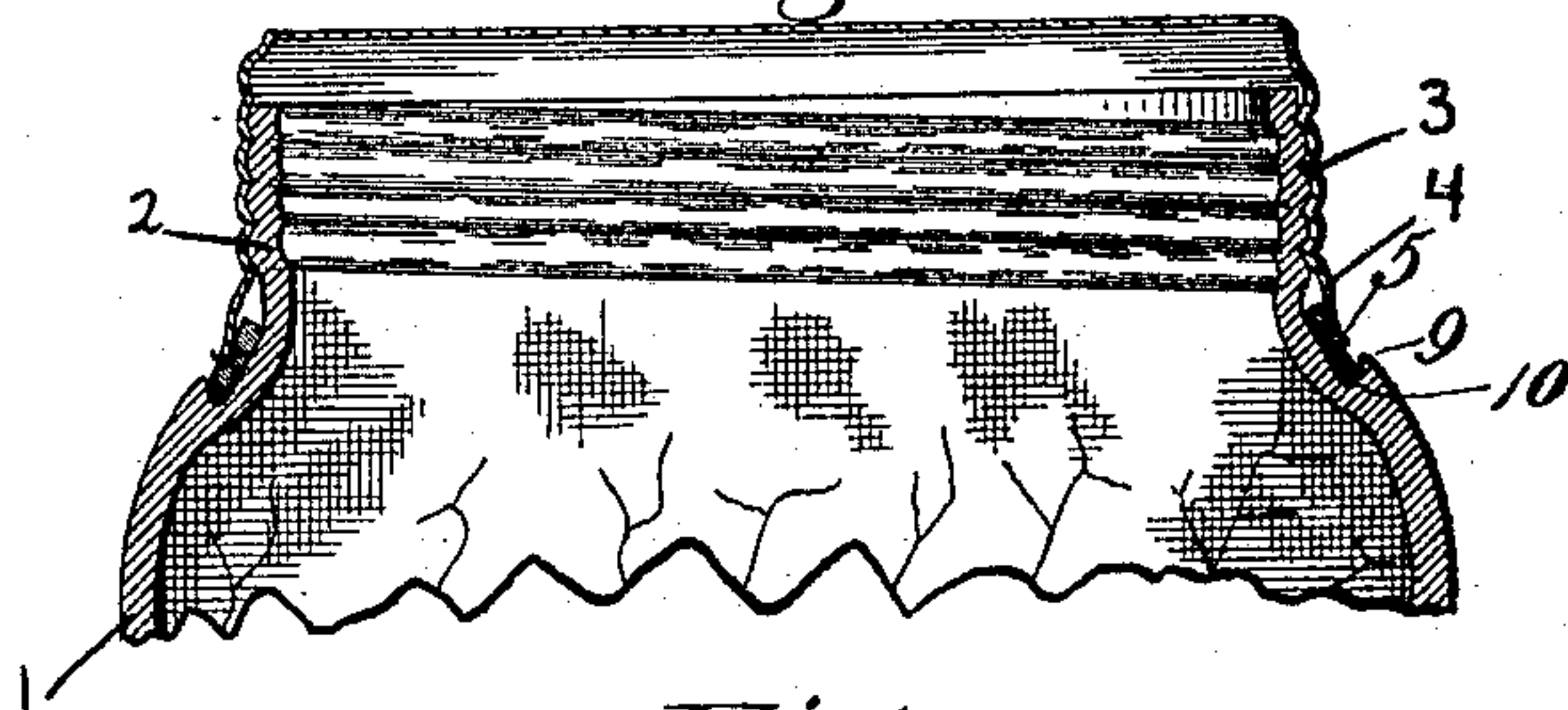
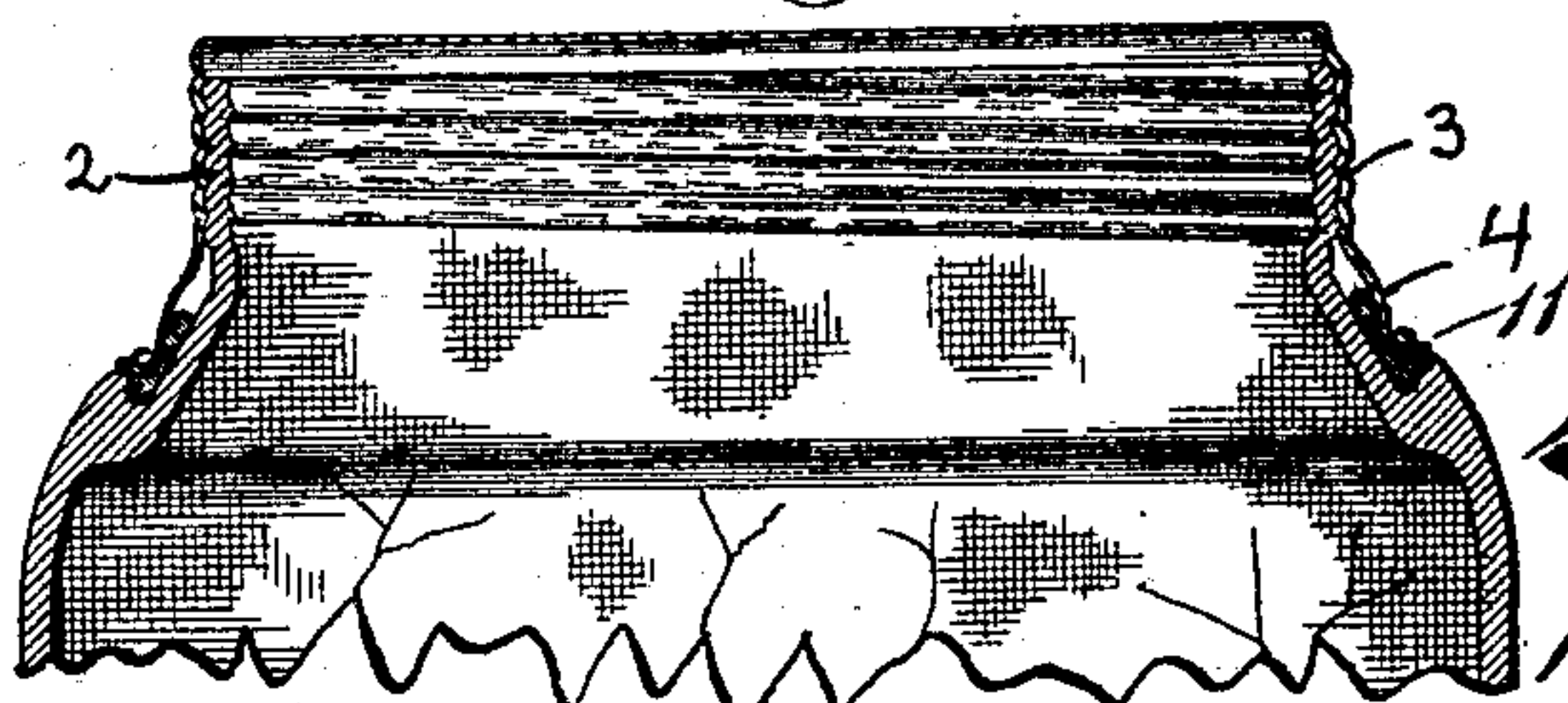


Fig. 2



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE W. GOMBER, OF CONYNGHAM, PENNSYLVANIA.

SEALING DEVICE.

SPECIFICATION forming part of Letters Patent No. 604,467, dated May 24, 1898.

Application filed February 27, 1897. Serial No. 625,384. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. GOMBER, a citizen of the United States, residing at Conyngham, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Sealing Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to certain novel features involved in the construction of fruit-jars and a sealing-cap therefor; and it consists, essentially, in providing a retaining-seat for the usual flexible band employed to form a union between the cap and the jar for the exclusion of air.

My invention, it may be said, consists in providing that the seat for the rubber band shall have an inclination which will result in holding said band substantially in the same plane occupied by the rim of the sealing-cap, presenting a wedge-like engagement between the cap and the contiguous part of the jar, and, further, in providing retaining flanges or walls for said seat which will reliably hold said band to its work.

All of these features will be fully described in the following specification, illustrated in the accompanying drawings, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a vertical section of the top of a jar, showing the gasket, groove, and the cap partially screwed in place. Fig. 2 shows the same with the cap screwed home.

Referring to the drawings, reference to the several details will be had by figures.

1 indicates the body of the jar, formed substantially in the usual manner and having the threaded mouth 2, upon which is designed to fit the threaded cap 3, which terminates in the lower rim or flange 4, having the rounded or slightly-cupped edge 5, as clearly shown in both views.

It will be observed that the inclination of the rubber band when mounted in its seat is substantially parallel with the plane of the rim, thus presenting a wedge-like closure for the cap, enabling said cap to readily conform

to any inequalities incident to the construction of the jar. It is well known that during the process of manufacture the mouth of the jar is liable to become elongated and does not at all times describe a perfect circle, and my invention is designed to compensate for such inequalities by readily yielding thereto, yet bringing the desired pressure to bear at all points upon the flexible band.

The usual construction followed in making a jar forms a shoulder at the base of the threaded mouth, which lies at right angles to the wall of said mouth, and it will be readily appreciated that no provision is made, except through the mediation of the rubber band, for any departure of said base from a horizontal plane. If the seat thus disposed at right angles to the wall of the threaded mouth is higher or lower at some places than others, the rigid rim of the cap will of course touch only at the higher points, leaving openings at other points which render the seal imperfect.

In Fig. 1 I have provided a seat which will reliably hold the band in position, and, if desired, its security therein may be reinforced by any suitable adhesive material applied to the inner face of the band before it is placed in position.

I am aware that much thought has been expended in this direction with the object in view of providing a reliable sealing device, and I am convinced, after familiarizing myself with the state of the art, that many defects and imperfections are avoided by the use of my construction.

I desire to call particular attention to the disposition I have made of the rubber band and the contacting rim or flange of the cap, inasmuch as they are held in such position with respect to each other that a wedge union is set up.

In order to present a maximum bearing-surface for the rim of the cap, I prefer to slightly curl or cup the same, as indicated at 5. I have shown a construction wherein the upper wall of the seat is dispensed with, while the lower wall thereof is extended slightly upward to form the retaining-flange 9, designed to more effectively secure and hold the rubber band in position. It will thus be seen that the pressure of the cap will, through the

- contacting edge 5, force the band downward in the cup 10, resulting in causing the rubber to slightly buckle or extend out between the rim and the flange 9, as indicated at 11 in Fig.
- 5 2. By this construction the extent of the sealing-line is increased, owing to the fact that both the inner and outer surfaces of the band are utilized in addition to one edge thereof, as clearly shown.
- 10 While I have shown the seat for the rubber band as being deeply cut into the wall of the jar, it is thought that in practice only a slight indentation will be found necessary, thus enabling the jar to be cheaply and expeditiously
- 15 manufactured.
- Having thus fully set forth the nature, construction, and operation of my invention, what

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

A can or jar having an annular flaring recess in its upper part, said recess in its lower part terminating in a groove, an elastic cushion or gasket fitting said recess, a screw-cap having a flaring lower rim terminating in an upward curved portion resting on said gasket, 25 whereby when screwed home the gasket is bulged outwardly, all arranged as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. GOMBER.

Witnesses:

E. P. SNYDER,
AARON ECKROTE.