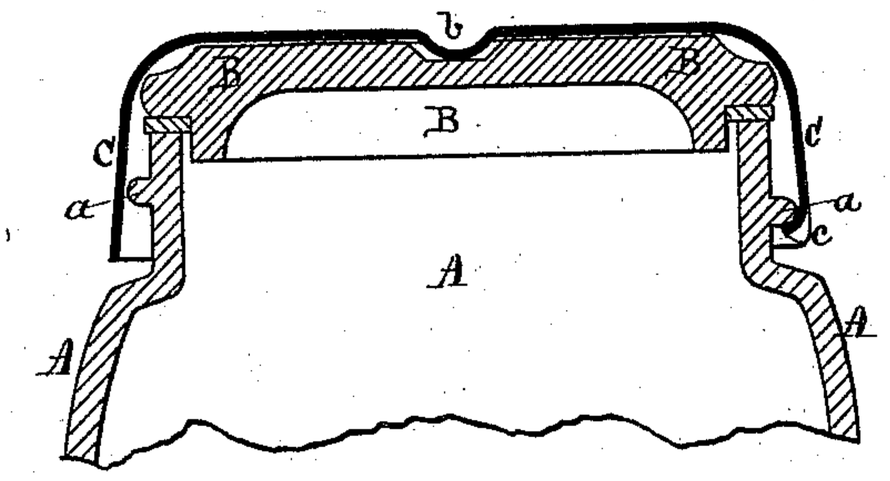
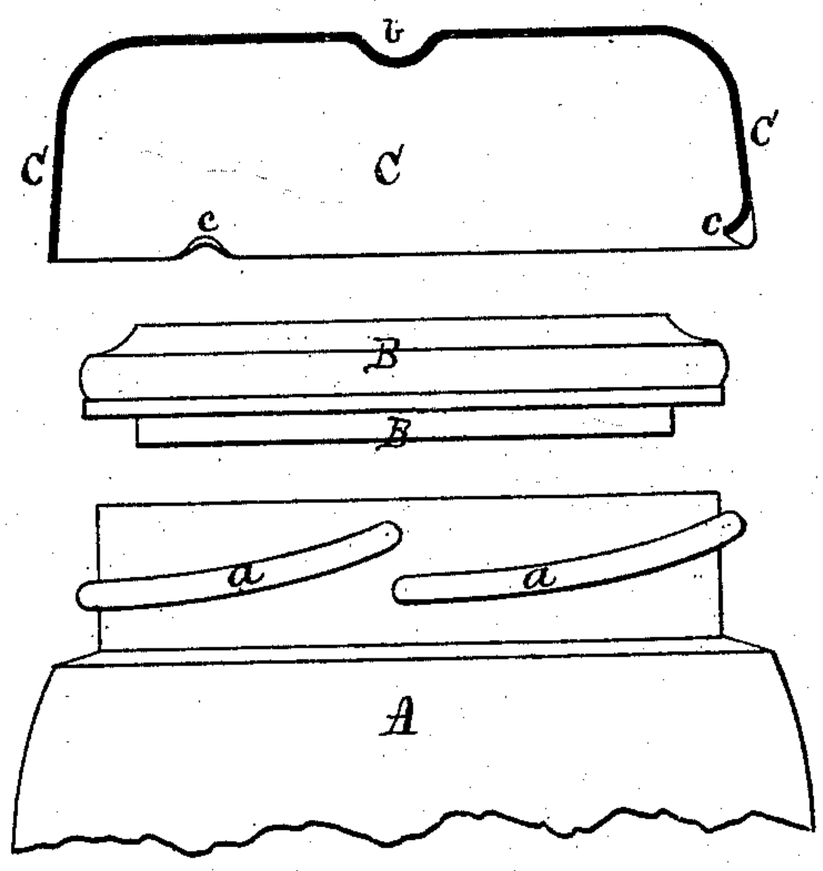
J. YOUNG.

FRUIT-JARS.

No. 172,289. Patented Jan. 18, 1876.





Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN YOUNG, OF AMSTERDAM, NEW YORK.

IMPROVEMENT IN FRUIT-JARS.

Specification forming part of Letters Patent No. **172,289**, dated January 18, 1876; application filed May 26, 1875.

To all whom it may concern:

Be it known that I, JOHN YOUNG, of Amsterdam, New York, have invented an Improvement in Fruit-Jars, of which the following is a specification:

This invention relates to a simple and expeditious means of securing the sealing-cover upon a fruit-jar, and to its easy and speedy opening; and consists in the employment, in combination with the sealing-cover, of a locking-cap, having a central bearing upon the sealing-cover, and a circumferential bearing upon inclines formed on the outer surface of the neck of the jar.

In the drawing, A represents the jar, having the inclined ribs *a* formed upon its neck. B is the cover, of glass, porcelain, wood, or other non-corrosive material, closing the top of the jar, and having a flange fitting within the mouth thereof, to prevent accidental displacement, and a rubber gasket between the shoulder of the cover and the top of the jar. In the top of the cover is a depression, *b*, fitted to receive a corresponding inward protuberance in the center of the locking-cap C, (shown in section,) by means of which the cap and the cover are kept in a proper relation to each other when in use. Within the circumference of the cap C, and near its lower edge, are formed the projections *c*, equal in number to, and fitted to engage with, the inclines *a* on the jar-neck, beneath which they press when the cap is placed upon the cover B and turned in the right direction. I propose to make these caps of stiff sheet metal, struck up from a single piece, and to form these several projections or protuberances from the body of the cap, which may, for the purpose of greater stiffness, be beaded or otherwise re-enforced.

It will be seen that, as this cap bears upon the cover at a single central point only, and upon the inclines at, perhaps, three points, the friction of these parts upon each other is very slight, and, consequently, that the jar may be tightly sealed and readily opened by the hand without using the lever necessary in the ordinary methods. Again, as the cover B is not turned with the cap in tightening it upon the jar, there is no friction of the rubber gasket upon the glass, either in opening or closing, and no binding of the parts together by the adhesiveness of this rubber, softened by heat and by the liquids in the jar. The cap serves, also, to protect the cover and the inclines *a* from injury, as it embraces the neck and top of the jar, touching them at a few points only; and it may form a very symmetrical finish to the jar by meeting the outer shoulder thereof below the inclines in a line with the prolongation of the sides of the jar.

Instead of a depression in the cap corresponding to that in the cover, as an equivalent device, the centers of each may be raised above the general level; or a protuberance on the cover may bear upon the plain inner surface of the cap, or one within the cap may bear upon the plain top of the cover, for a central bearing; but I prefer the method already described, and shown in the drawings.

The projections *c* in the edge of the cap will engage with the inclines equally well whether the inclines are formed of a uniform pitch or not; hence, I prefer to give to them a greater pitch at their upper ends, and less as they approach the shoulder of the jar, for the purpose of obtaining, at the last turn, greater power in tightening the cap, and to prevent accidental loosening from too sharp a pitch.

I claim as my invention—

The metallic disk C, covering the jar-mouth and bearing centrally upon the glass cover, while it clamps the parts A and B to each other with an elastic gasket interposed between them, substantially as and for the purpose set forth.

JOHN YOUNG.

Witnesses:
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