

No. 708,191.

Patented Sept. 2, 1902.

S. ADLAM.
VACUUM FRUIT JAR SEALING DEVICE.

(Application filed Nov. 22, 1901.)

(No Model.)

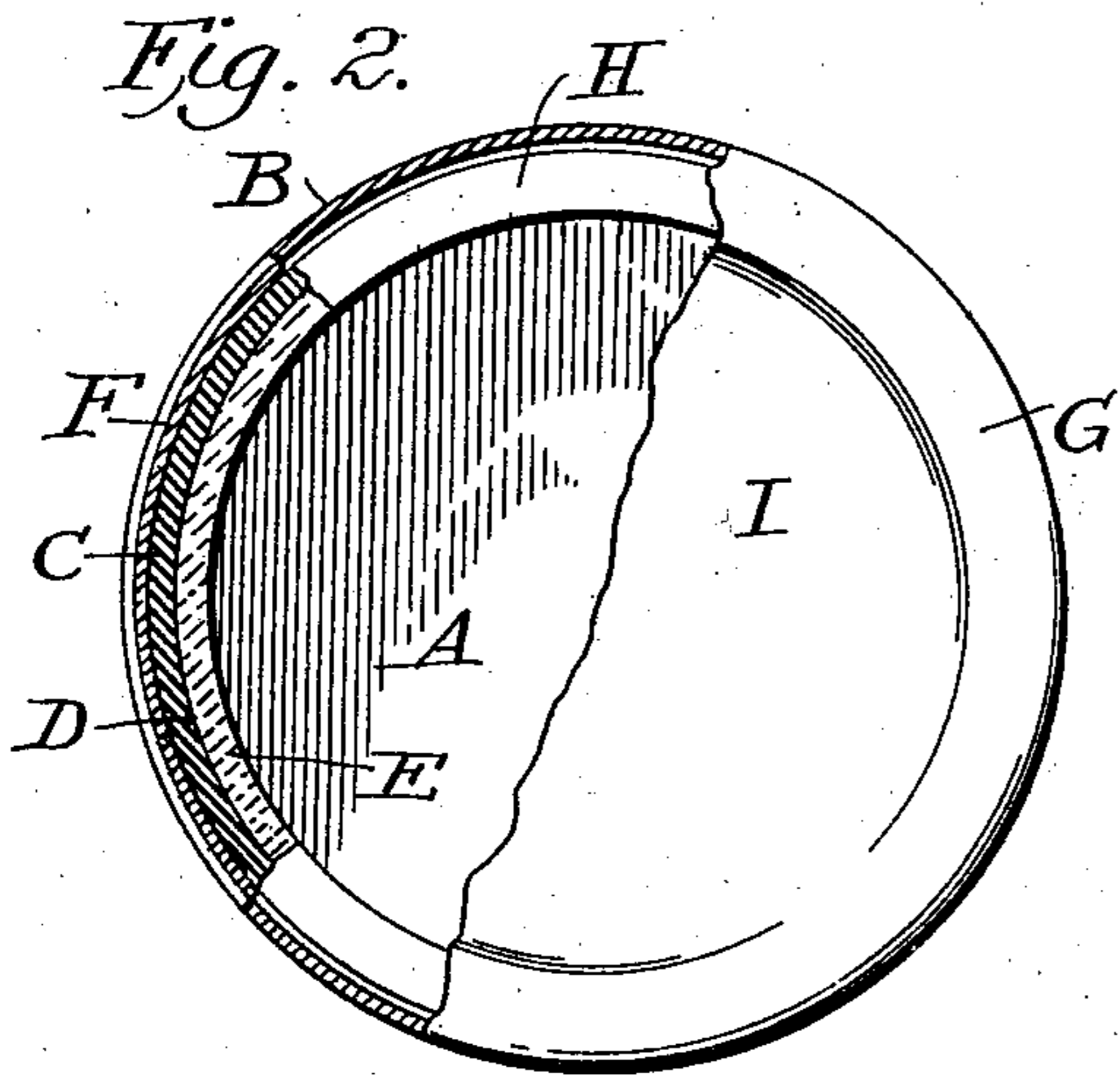
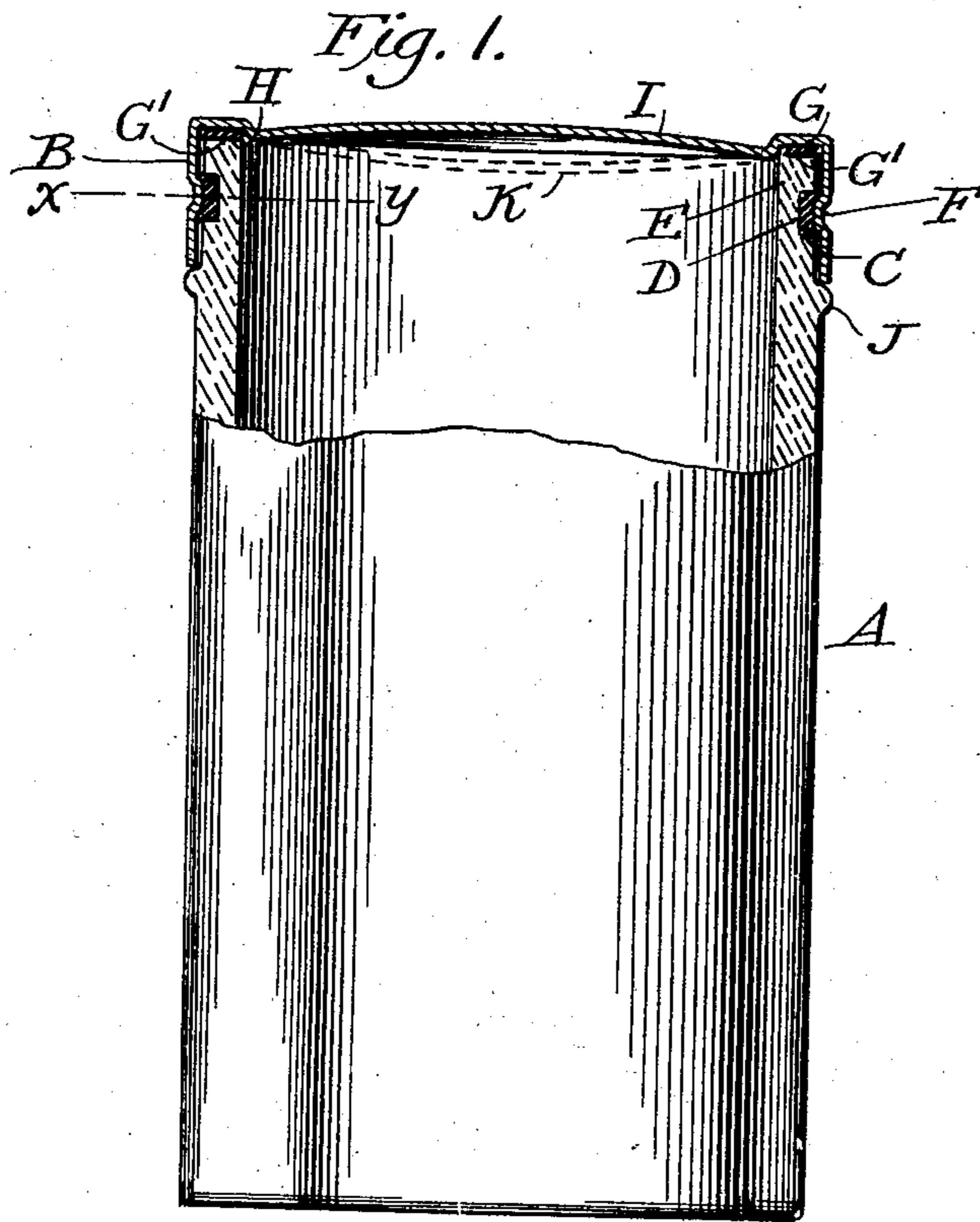
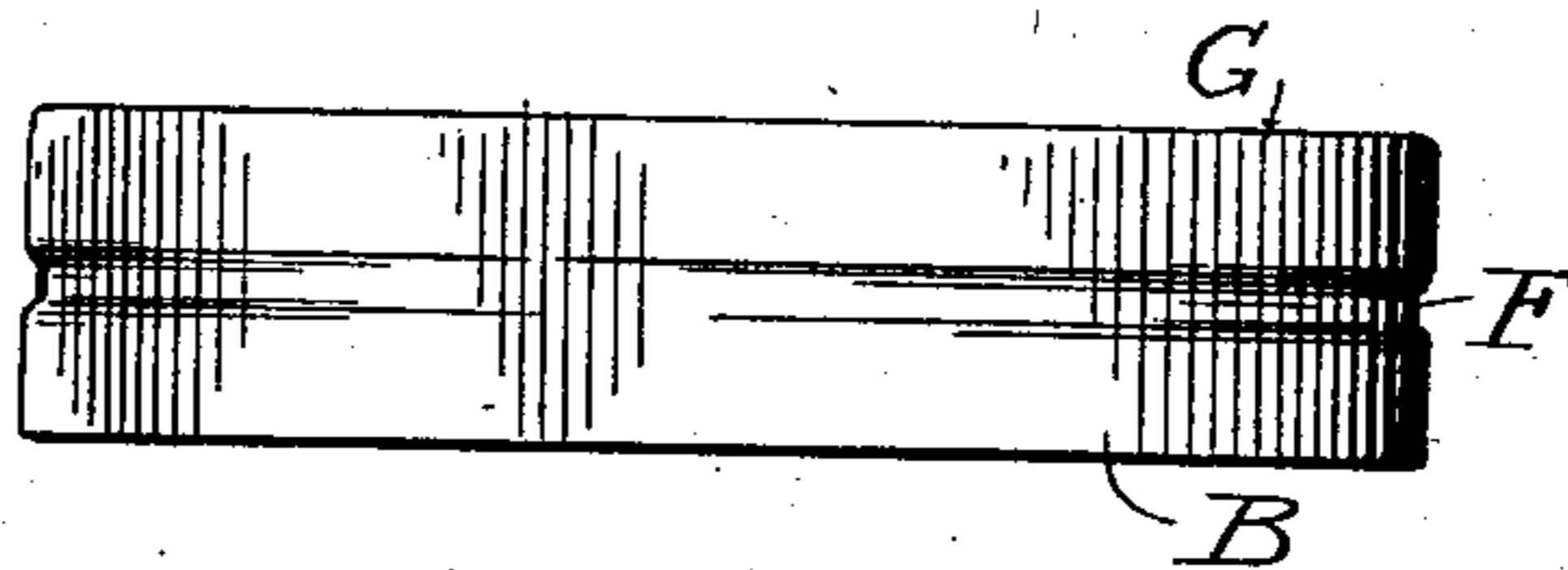


Fig. 3.



WITNESSES:

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SAMUEL ADLAM, OF NEW YORK, N. Y.

VACUUM FRUIT-JAR-SEALING DEVICE.

SPECIFICATION forming part of Letters Patent No. 708,191, dated September 2, 1902.

Application filed November 22, 1901. Serial No. 83,313. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL ADLAM, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Vacuum Fruit-Jar-Sealing Devices, of which the following is a specification.

My invention relates to means for hermetically sealing fruit-jars by means of the exterior pressure of the air against the sealing-cap upon a fruit-jar in the interior of which the pressure has been reduced by means resulting from the construction of the sealing-cap or by condensation of vapor formed therein when filling the jar; and it consists in certain elements and combinations of elements fully specified and claimed herein.

In order that those skilled in the art to which my invention appertains may understand, construct, and use my invention, I will proceed to describe it, referring to the drawings herewith, in which--

Figure 1 is a part vertical central section of a jar provided with my invention. Fig. 3 is a detail showing the cap. Fig. 2 is a top view and part section.

A is the body of the jar.

J is a bead surrounding for strengthening.

D is a recess formed in the outside of the neck.

C is a flat rubber band located in groove D.

H is the top of the wall of the jar, smoothed off after molding.

B is the barrel of the cap.

F is a narrow inward depression formed in the barrel of the cap.

G is a recess formed in the top surface of the cap above the barrel to hold a packing-ring. From the inner sides of this recess the top surface I of the cap curves upward toward the center, forming an arch of thin material capable of being sprung downward to the position shown in dotted lines K by air-pressure or by hand.

G' is a packing-ring located in recess G.

The operation of my invention is as follows: The jar A being filled nearly to its top, the barrel of the cap is pressed downward, so that the depression F coincides with rubber band C, and as it is slightly smaller in diameter than

the outer surface of the said rubber band it presses into the same and retains the cap in position. The top surface I of the cap is now sprung into the position shown in Fig. 1 at K, thus forcing out the air from within the jar. This is possible, because the contact of groove F with ring C is not absolutely airtight. When this is done, the pressure of the outer air is greater than that within the jar, and consequently it forces the packing G' in groove G down upon the top H of the walls and causes a hermetical sealing upon the "evacuum" principle, so called.

To open the jar, the air is admitted by either puncture or prying under the packing-rings to admit it to the jar and equalize the pressure.

This invention is very effective and cheap.

Having now fully described my invention and the manner in which I have embodied it, what I claim as new and as my invention, and desire to secure by Letters Patent, is--

1. In an apparatus for sealing fruit-jars by atmospheric pressure, the combination consisting of neck of the jar, provided with the recess as D; the compressible ring as C, located in recess D; the barrel of the sealing-cap as B, provided with an inwardly-formed depression as F, constructed to engage with ring C; a top surface turned inwardly from barrel B and provided with a recess G; a packing G', located therein; the top surface of the cap being formed with a spring stamped in the metal, all constructed, arranged and combined to operate substantially as hereinbefore specified.

2. As an article of manufacture, a vacuum fruit-jar cover, constructed with a vertical rim provided with a depression in it, the top surface of said cover being formed with a convex central portion, struck up in the metal and forming a spring, substantially as and for the purposes specified.

Signed at New York, in the county of New York and State of New York, this 9th day of November, A. D. 1901.

SAMUEL ADLAM.

Witnesses:

CHARLES W. LOW,
JAMES M. HICKS.