

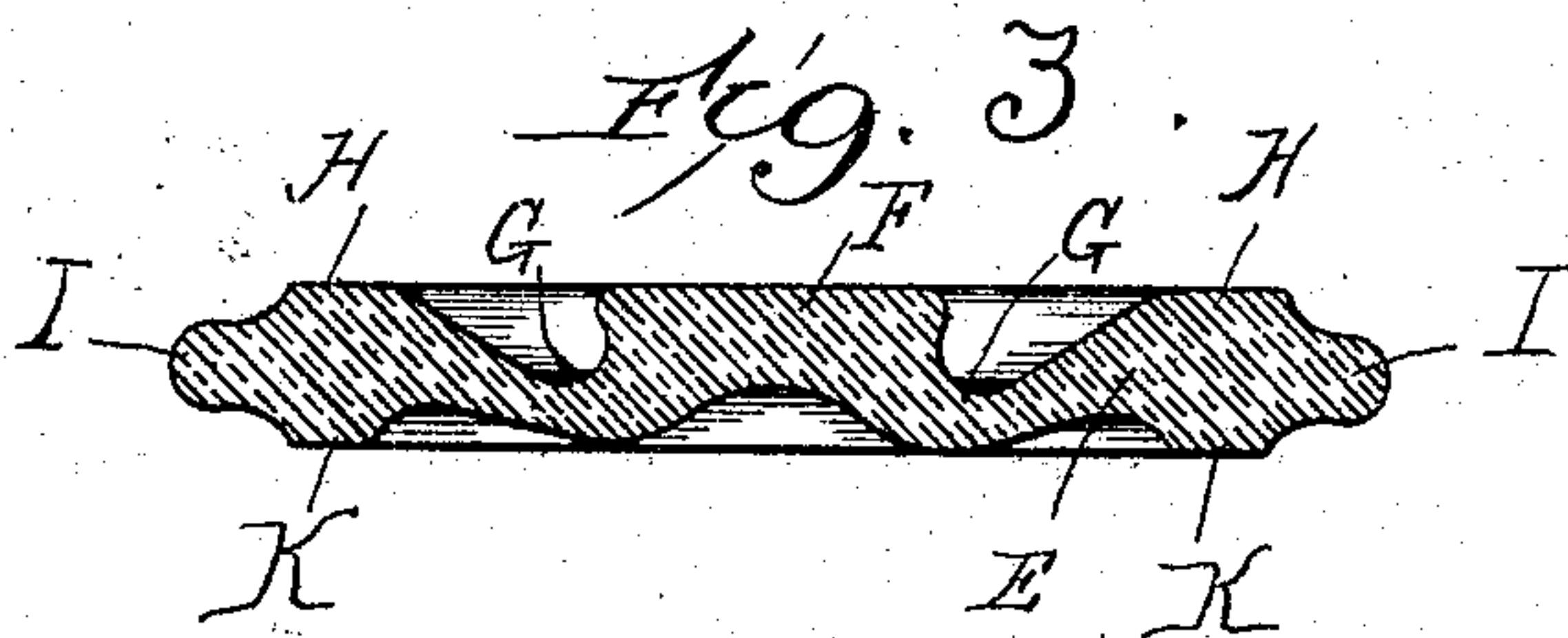
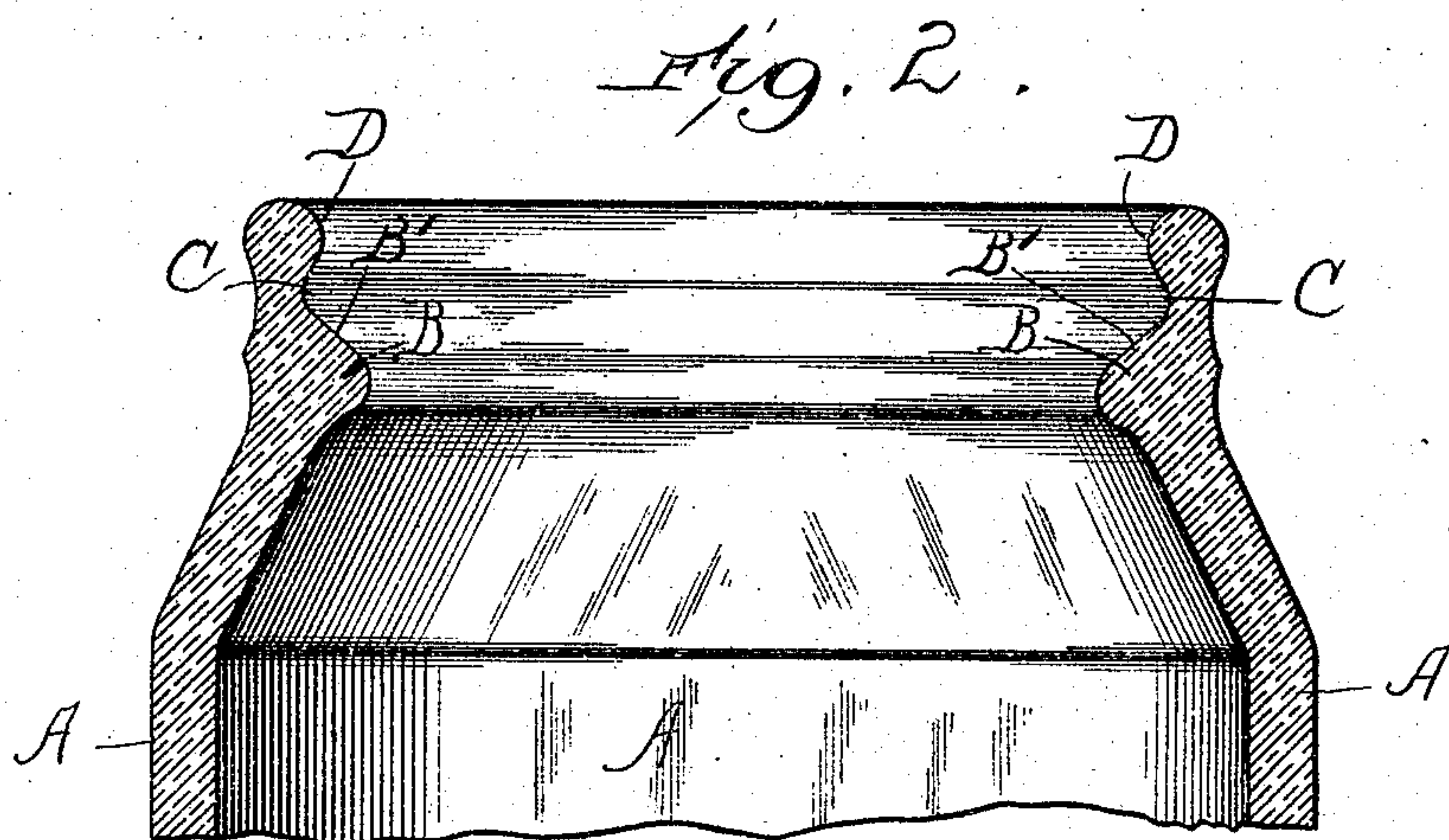
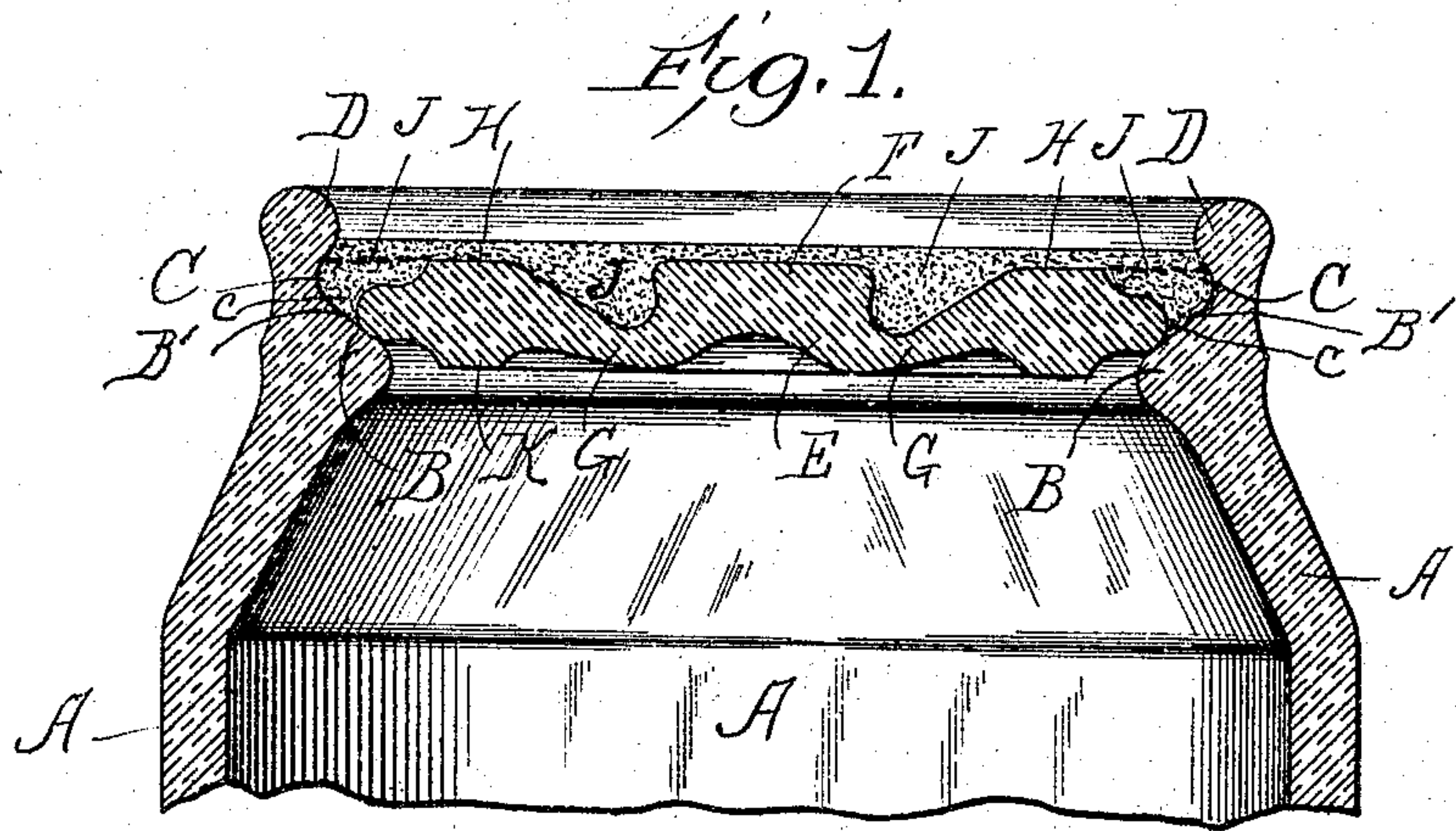
No. 782,411.

PATENTED FEB. 14, 1905.

R. H. McCOY.

JAR.

APPLICATION FILED APR. 14, 1904.



Witnesses:
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UNITED STATES PATENT OFFICE.

ROLLAND H. McCOY, OF MONMOUTH, ILLINOIS.

JAR.

SPECIFICATION forming part of Letters Patent No. 782,411, dated February 14, 1905.

Application filed April 14, 1904. Serial No. 203,192.

To all whom it may concern:

Be it known that I, ROLLAND H. McCOY, a citizen of the United States, residing at Monmouth, in the county of Warren and State of Illinois, have invented certain new and useful Improvements in Jars, of which the following is a specification.

My invention relates to jars, and more particularly that class thereof wherein the hermetic union of the vessel and its lid is effected by means of a seal of wax, paraffin, cement, or other suitable material interposed between them.

It is well known that fruits, syrups, meats, and other articles liable to fermentation have with great difficulty been preserved in jars or other vessels when seals of the nature described—that is, wax or the like—have been employed. This difficulty has arisen from improper or faulty construction of the jar and lid, or, in other words, they have not been so constructed as to firmly and positively hold the seal in its proper integral unbroken position and condition under all ordinary circumstances, especially when the jar was turned with its top downward, in which position should the seal become disturbed in handling or shipping the lid would fall out.

To the end of correcting these faults this invention consists, primarily, in so constructing parts of the jar and the cover therefor that as the seal is poured in and on said parts it will as it cools form a joint thereabout which will effectively retain the lid on the jar in any position in which the jar may be placed, holding it from accidental displacement and at the same time effecting a perfect hermetic seal.

The invention further consists in constructing the parts of the jar in such configurations that the seal will lie partly within an interior groove extending around the neck of the jar, partly on top of a portion of the lid, and partly at its ends in such manner that the seal or the outside diameter thereof is greater than in the inside diameter of the parts above it.

It further consists in a construction which will not only permit the point where the in-

strument used in removing the seal is to be inserted, but also indicates said point.

In order to give a clearer understanding to those not skilled in the art to which this invention appertains, it may be stated that in all devices of the kind excogitated no provision has been made for the extremely important fact that wax and similar substances in cooling contract and shrink away after having been heated and poured, thus disturbing or destroying the seal and inducing fermentation and decomposition of the contents of the jar. These defects are corrected in the device herein shown and described by the peculiar configuration of the outer flange of the cover or lid and by the groove in the interior of the neck of the jar and the bead above it, which is of greater diameter than the mouth of the jar.

I am aware that jars which would at first sight appear to be somewhat similar in outline to my device have been invented and used for preserving-jars; but so far as my knowledge thereof extends such jars have been used in connection with metal seals. It will be apparent upon reading the description hereinafter, taken in connection with the accompanying drawings, that many points of novelty are herein shown.

In preserving-jars as heretofore constructed it has generally been necessary to entirely cover the lid with the sealing material to produce even a partially-effective seal. The opening-point or point where the opening instrument was to be applied was not apparent, and the parts were liable to become chipped or broken in attempting to open the jar. A large amount of wax was necessary, causing much expense. These faults and objections are also corrected by my device.

In the accompanying drawings, which illustrate my invention, and in which the same part is indicated by the same letter in the different figures thereof, Figure 1 is a central sectional elevation, lid in place; Fig. 2, a central section, the lid removed; and Fig. 3, a central section of the cover.

A represents a jar having a wide neck; B,

an annular interior lid-support or shoulder; C, an annular groove which extends around and within the neck of the jar between the lid-support B and the rib or bead D, which latter
5 extends around and within the neck of the jar at its upper portion, the two last aforesaid parts forming said groove.

E is the lid, having a knob F disposed centrally thereof, an irregularly-curved concave
10 portion G surrounding the knob and lying partly beneath it, an annular upwardly-projecting member exterior to the concave, and it terminates in a flange I, which is much thinner than the adjacent parts of the lid and
15 which is rounded or beveled off at its upper surface, but which may be of any preferred contour on its lower surface. For the purpose of lightness in weight and for other purposes the lid is formed on its upper surface
20 with curved members, both concave and convex, and has preferably an annular flange K depending therefrom and projecting into the mouth of the jar when it is in place.

The parts of the jar not herein described
25 may be of any shape or configuration desired and need not be further described. All of the described parts are preferably of clay, but they may be of glass or any other suitable material.

30 The lid is of such diameter that it will pass snugly and closely down through the opening formed by the rib D on the neck of the jar, and only a very small portion of the flange I thereof will contact with and rest on the lid-
35 support B, which, as shown, has a beveled or inclined supporting-face B'. By reason of such construction of said parts the lid will adjust itself to the most desirable position on the face of the lid-support, which position is
40 substantially midway laterally thereof, and only a slight seal be required. In fact, I have found it desirable and preferable, as well as economical, to fill with the sealing compound J only the space exterior to and beneath the
45 member H, as shown by dot-lines at Fig. 1. When the lid is put in place, with the flange thereof resting on the inclined face B' of the lid-support, the sealing compound J (in a semi-liquid condition) is poured onto the top of the
50 flange I, whence it will flow into and fill the groove C and the space *c*, which is formed by their structural peculiarities and by the downwardly-inclined face of the lid-support. The compound will entirely fill up said spaces, and
55 solidifying therein will be prevented from escaping or falling out by reason of it being firmly held within the groove C by the rib D, the diameter of which rib is less than that of the groove. The seal thus formed is effective
60 in use, economic of manufacture, and will, should the package be roughly handled or jarred in shipping, even though it be top

downward, hold firmly and securely in the groove, in the opening or space *c*, and on top of the flange. The seal being very narrow, 65 the point where the instrument is to be inserted to remove it will be readily seen. If preferred, the seal may be poured to cover the entire upper surface of the lid, as shown above the dot-lines at Fig. 1; but this is not desirable, 70 as it would not only cause expense, but would render the knob useless in carrying the package and would obscure the lid and opening-point from view.

As has hereinbefore been stated, I am aware 75 that jars have been constructed in configurations which would at first sight appear somewhat similar to mine—*i. e.*, that jars having annular ribs have been made and that jars with annular grooves have also been made; 80 but none of these have been used in the way and for the same purpose as mine.

What I claim as new is—

1. In a device of the character described, a jar having an elongated neck, a lid-support 85 therein and integral therewith, and having its upper face inclined inwardly and downwardly, and having an annular groove within the neck of the jar and above the lid-support, an annular rib above the groove and also within 90 the neck of the jar, and a lid having an annular circumferential flange resting on the inclined face of said lid-support, said flange being beveled or rounded off at its outer edge, whereby only a small part thereof will contact 95 with the lid-support, and the diameter of the lid being less than that of the opening formed by the rib in the neck of the jar, substantially as described and for the purpose specified. 100

2. The combination in a device of the kind described, of a jar having an elongated neck, a lid-support therein and integral therewith, having its upper face inclined downwardly and inwardly, and having an annular groove 105 within the neck of the jar and above the lid-support, an annular rib above the groove and also within the neck of the jar; with a lid having an annular circumferential flange resting on the lid-support, said flange beveled or 110 rounded off at its outer edge whereby only a small portion thereof will contact with the inclined face of the lid-support, and the diameter of the lid less than that of the opening in the neck of the jar, and a sealing compound 115 for uniting and sealing said parts, substantially as and for the purpose described.

3. In combination, a jar having an elongated neck, an annular bead or enlargement within and about its upper portion and having 120 a circumferential groove, and an inclined lid-support also within the neck of the jar circumferentially thereof; with a lid having a flange rounded off at its outer edges and adapt-

ed to rest on the lid-support, all substantially as described and for the purpose specified.

4. In a device of the character described and in combination, a jar having a neck, a bead
5 about and within said neck at its upper portion, an inclined lid-support circumferentially and interiorly of said neck and beneath said bead, said bead and said lid-support causing a groove to be formed, with a lid having a

flange adapted to rest on said lid-support, the edge or periphery of said flange being rounded off, and a seal of cement or the like adapted to hold said lid in place, substantially as and for the purpose specified.

ROLLAND H. McCOY.

Witnesses:

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