

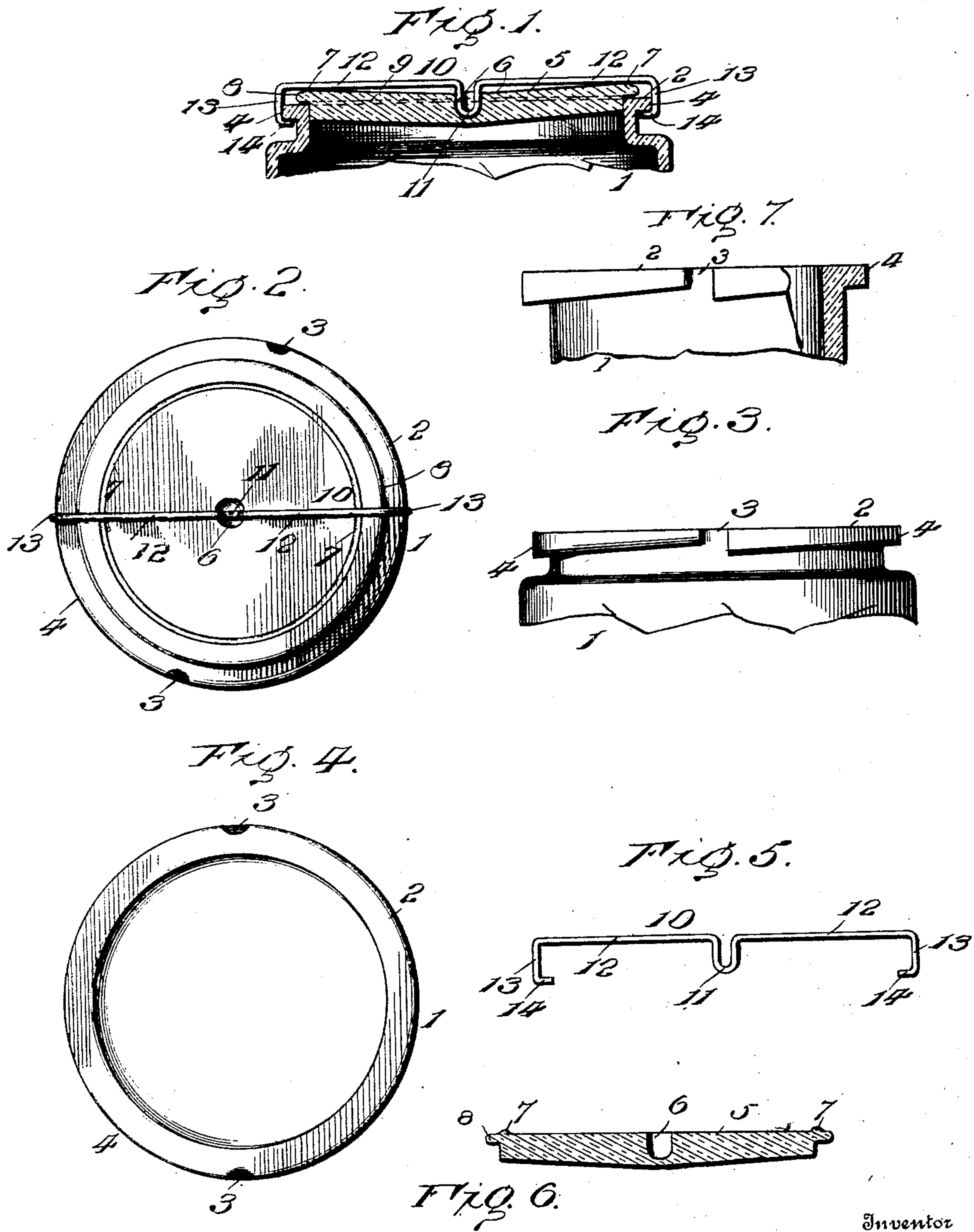
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H. F. WEBB.
JAR CLOSURE.

(Application filed Apr. 10, 1902.)

(No Model.)



Inventor

Henry F. Webb.

Witnesses

Mr. M. W. Robb.

By

R. A. Racy, Attorneys

UNITED STATES PATENT OFFICE.

HENRY FITZROY WEBB, OF COUDERSPORT, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO WILLIAM H. RICHARDS AND WILLIAM A. SHEAR, OF COUDERSPORT, PENNSYLVANIA.

JAR-CLOSURE.

SPECIFICATION forming part of Letters Patent No. 711,028, dated October 14, 1902.

Application filed April 10, 1902. Serial No. 102,291. (No model.)

To all whom it may concern:

Be it known that I, HENRY FITZROY WEBB, a citizen of the United States, residing at Coudersport, in the county of Potter and State of Pennsylvania, have invented certain new and useful Improvements in Jar-Closures; 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.

This invention relates to jar-closures, the object in view being to provide a closure for hermetically sealing preserving and other jars, at the same time obtaining the advantage of a large mouth and an equal application of pressure of the closure directly upon the rim at the mouth of the jar. The particular combination and arrangement of the jar, closure, gasket, and fastening device bring the pressure of the fastening device upon the closure directly over the gasket. With the improved closure a jar with practically no neck may be employed, thus giving a mouth of maximum size, a flat rim without projections or recesses on its upper surface, and a closure with a practically flat upper surface.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts, as hereinafter fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a vertical diametrical section through the upper portion of a jar, showing the improved closure and fastening means. Fig. 2 is a top plan view of the same. Fig. 3 is a side elevation of the upper portion of the jar, showing the rim thereof with its inclined or sloping faces. Fig. 4 is a plan view of the same. Fig. 5 is a view in elevation of the spring-wire fastener. Fig. 6 is a diametrical section through a modified form of closure. Fig. 7 is a side elevation similar to Fig. 3, partly broken away and showing the mouth of the jar the full size of the jar-body.

Like reference-numerals designate corresponding parts in all the figures of the drawings.

Referring to the drawings, 1 designates the

body of a jar which in carrying out the present invention is provided at its upper edge with a rim 2, which projects outward beyond the outer surface of the neck portion of the jar to allow the hooked extremities of the fastening device hereinafter described to extend beneath said rim. The upper surface of the rim 2 is perfectly flat and smooth, as shown, said rim being broken only by a pair of notches 3, located at diametrically opposite points, as shown in Fig. 4.

The portions of the rim 2 intervening between the notches 3 are of variable thickness, or, more accurately speaking, the lower surfaces of such portions of the rim are pitched, inclined, or sloped gradually and evenly from one notch to the other, the undersides of both portions of the rim being inclined equally in the same direction, as indicated in Fig. 3.

The jar-closure (indicated at 4) is in the shape of a disk having a practically flat upper surface 5 and provided with a central recess or socket 6, the purpose of which will hereinafter appear. The top side of closure is very slightly inclined toward its center, or it may be made in other ways—for instance, by providing the circular bead 7 at its periphery, to thereby bring the pressure of the wire fastener particularly upon the outside of the top of the closure directly over the gasket. The closure is of sufficient thickness to fit within the neck of the jar, as shown in Fig. 1, and is provided with a circumferential flange 8, which extends over the rim 2, a gasket or ring 9 being interposed between the flange 8 and rim 2, as shown in Fig. 1, to provide an air-tight joint. By reference to Fig. 1 it will be seen that the highest part upon the surface of the closure is directly above the point of application of gasket 9, so that the pressure exerted by the fastening device on the closure is directly over the gasket.

The fastening device (shown at 10) is formed of a piece of spring-wire bent or folded upon itself centrally to provide a pendent offset 11, which is adapted to be received in the socket or recess 6 of the closure. The fastening device also comprises oppositely-extending arms 12, the outer portions of which are bent

downward, as at 13, and formed with terminal hooks 14, which are designed to engage beneath the rim 2 of the jar, as shown in Fig. 1.

The pendent offset 11 forms a pivotal connection between the spring-wire fastener and the closure and enables the fastener to be rotated to bring the terminal hooks 14 into proper frictional engagement with the inclined lower surfaces of the rim 2. It will also be noted that the pendent offset 11 extends downward as far as the hooked extremities of the arms of the fastener and that the socket in the closure is of sufficient depth to receive such offset. The advantage of this arrangement is that the fastener is prevented from becoming accidentally detached from the closure, rendering it necessary to apply force to remove the fastener.

From the foregoing description it will be understood that the upper surface of the rim at the top of the jar is smooth and practically unbroken, which greatly facilitates cleaning. The upper surface of the closure is also practically smooth and flat, thereby adding to the practical utility of the closure as a whole by doing away with objectionable projections. Another important feature of the invention resides in the fact that the mouth of the jar may be made of any desired size and, if required, of the full size of the body of the jar, which constitutes an important item in the cleaning of jars after they have been emptied of their contents. It will further be noted that the pressure of the fastening device is at the outer edge of the closure directly over the rim of the jar.

The arms 12 of the fastening device must be of equal length, and the terminal portions 13 must be of a length equal to the combined thickness of the cover at its outside edge or thickest part and the thickness of the rim of the jar next to the notches 3.

The diameter of the closure is in such proportion to the diameter of the neck and the notches in the rim of the jar and the distance between the points of the fastener 14 so regulated that when the fastener is once attached to the closure it cannot become separated therefrom except by force, and is therefore always ready for instant application to the jar. The closure can be made of glass or other suitable materials.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

As an article of manufacture, the combination of a jar provided with a rim extending around the mouth thereof, notches in the rim located at diametrically opposite points, cam-surfaces upon the under side of the rim and extending from one notch to the other, a closure having an annular flanged portion to extend over the rim of the jar, the upper surface of the closure having a concave depression extending from the periphery thereof, and a socket or recess located in the center of the said depression, a spring-wire fastener having its end portions downwardly and inwardly bent to form hooks to engage the cam-surfaces upon the rim and having a pendent offset portion at the center thereof extending into the aforesaid recess upon the closure and cooperating therewith to prevent displacement of the fastener from the closure, the said offset portion being approximately of the same length as the downwardly-bent ends of the fastener, substantially as and for the purpose set forth.

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

HENRY FITZROY WEBB. [L. S.]

Witnesses:

F. H. MCGINNIS,
B. MCGINNIS.