

(No Model.)

R. I. PATTERSON.
FASTENING FOR JARS.

No. 515,010.

Patented Feb. 20, 1894.

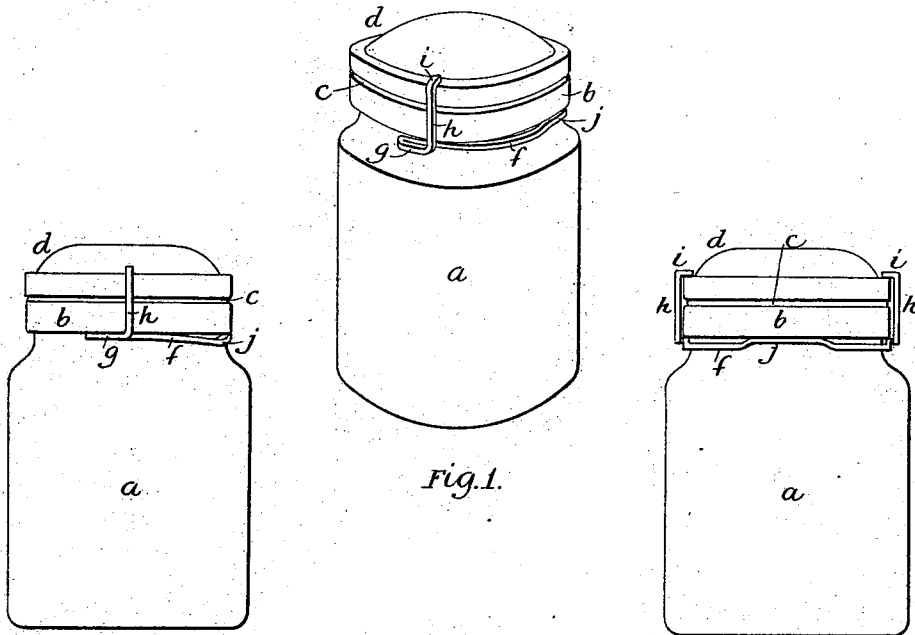


Fig. 1.

Fig. 2.

Fig. 3.

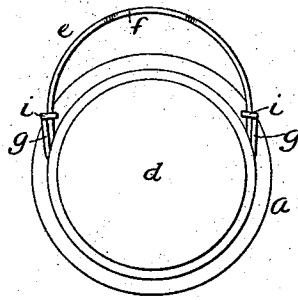


Fig. 4.

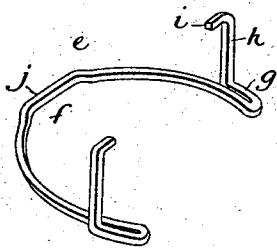


Fig. 5.

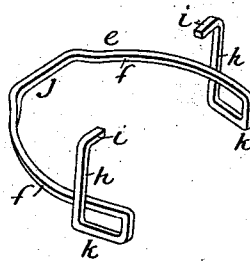


Fig. 6.

Witnesses

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UNITED STATES PATENT OFFICE.

ROBERT I. PATTERSON, OF MUNCIE, INDIANA.

FASTENING FOR JARS.

SPECIFICATION forming part of Letters Patent No. 515,010, dated February 20, 1894.

Application filed May 19, 1893. Serial No. 474,754. (No model.)

To all whom it may concern:

Be it known that I, ROBERT I. PATTERSON, a citizen of the United States, residing at Muncie, in the county of Delaware and State of Indiana, have invented certain new and useful Improvements in Fastenings for Jars and the Like; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention has reference to certain new and useful improvements in fastenings especially designed for use in connection with jars, bottles, and similar receptacles, and has for its object to provide a fastening of simple and cheap construction which in practice is susceptible of being quickly applied to close the mouth of the receptacle with a minimum of time and labor, and of being as quickly disconnected to open said mouth; and which by reason of its construction is durable, and not liable to get out of order.

My invention consists essentially in a fastener formed of a single piece of wire, and in the details of construction and operation, all of which will fully and clearly appear from a reading of the following description taken in connection with the accompanying drawings which form a part of this specification, and in which—

Figure 1 represents in perspective view a jar with my improved fastener applied thereto. Fig. 2 is a side elevation of the same. Fig. 3 is a rear elevation of the same. Fig. 4 is a top view showing the fastening partially removed. Fig. 5 is a perspective view of the fastening detached; and Fig. 6 is a perspective view of a modification.

Like letters of reference denote like parts in the several figures of the drawings.

The reference letter *a* denotes a jar of ordinary construction to which my invention is applicable, although, as will be understood, the fastening may be advantageously employed in connection with bottles and other receptacles. The neck of the jar is provided with an annular flange *b* on which and around

said neck is placed a rubber or other suitable gasket *c*, and *d* is the cover having a depending annular flange adapted to fit over said neck and to rest and be clamped on said gasket. 55

The fastening is represented by the letter *e*, and is constructed of a single piece of wire preferably square in its cross section and having sufficient resilience to enable the fastening when made and applied to hold itself against displacement and impart the necessary pressure on the cover. This fastening consists of the loop portion *f* in the form of, but slightly larger than a semi-circle, which partially surrounds the neck of the jar or bottle below the flange, and is made of a diameter a little less than the diameter of the said neck in order that the same may be sprung and held in place. At the ends of the loop portion the wire is bent rearwardly at *g* on said loop for a short distance, in order to permit of a vertical resilience, and is again bent vertically to form arms *h* which extend upward a distance equivalent to the height of the cover above the loop and is here bent and terminate in lugs *i* which engage the top of the cover on opposite sides as shown. The loop portion *f* is offset or bent upward at *j*, at equal points from the ends thereof, and this offset portion in practice finds a lodgment under the flange and against the neck of the bottle. The arms *h* are preferably located at diametrically opposite points with relation to the jar, and the rearward bend *g* is preferably parallel with the loop portion. By reason of these features I obtain a lever action of the fastener, it being evident that as the loop is forced down to lodge the offset under the flange, the lugs *i* are thereby strongly pressed downward on the cover and the jar is securely locked and sealed. 90

In operation, the lugs are placed upon the upper surface of the cover, and by gentle pressure the fastener is sprung upon the neck of the jar. Pressure is then imparted in a downward direction on the loop portion, until the offset is below the flange, and the tension necessary to obtain an effective seal is had from the lever action of the loop and the arms *h*; and by bending the wire outwardly, rearwardly and upwardly at diametrically opposite points, there is a strong spring action which is imparted to the cover, and operates 100

to compensate for any irregularities that may exist in the thickness of the gasket or cover, and consequently all liability of breakage is overcome.

5 In Fig. 6 I have shown a fastener embodying all the essential features of my invention but in which the wire at the ends of the loop are bent downwardly and rearwardly at *k* and then upwardly to points diametrically opposite to each other and to the center of the cover. The operation of this modified form of construction is however substantially the same as that of the construction of fastener heretofore described, the only difference being that the bends form almost a true circle or spiral spring, whereas in the first case the spring is of the torsional type.

The fastener when constructed in accordance with the foregoing is very simple in operation and being formed of a single piece of wire may be cheaply produced. It may be quickly applied and disconnected, and is not liable to become broken or to be disarranged.

Having now described and ascertained the nature of my invention and in what manner

the same is to be performed, what I claim, and desire to secure by Letters Patent, is—

1. A fastening for jars and the like formed of a single piece of wire, and comprising a loop adapted to be sprung about the neck of the jar or other article, and having its ends formed with return bends, upwardly extending arms and lugs for engaging the cover, and an offset in the loop operating in the manner and for the purposes set forth.

2. A fastener for jars and the like made of a single piece of wire bent to form a loop adapted to be sprung about the neck of the jar or other article, and having its ends bent rearwardly, and then upwardly to form arms having lugs for engaging the cover, and an offset in said loop, substantially as and for the purposes set forth.

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

ROBERT I. PATTERSON.

Witnesses:

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