(No Model.)

F. MONIER.

JAR FASTENER.

No. 535,549. Patented Mar. 12, 1895.

Fig. 1.

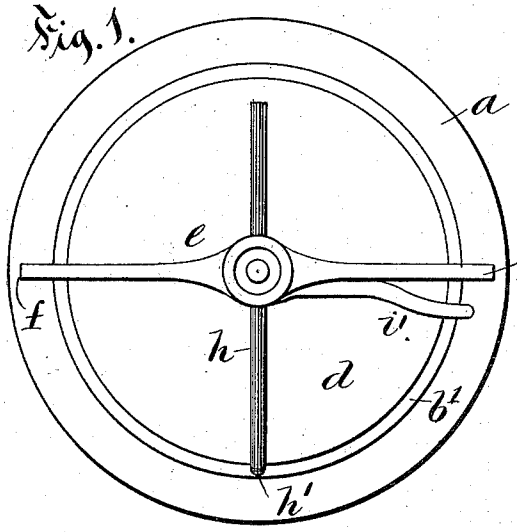


Fig. 3.

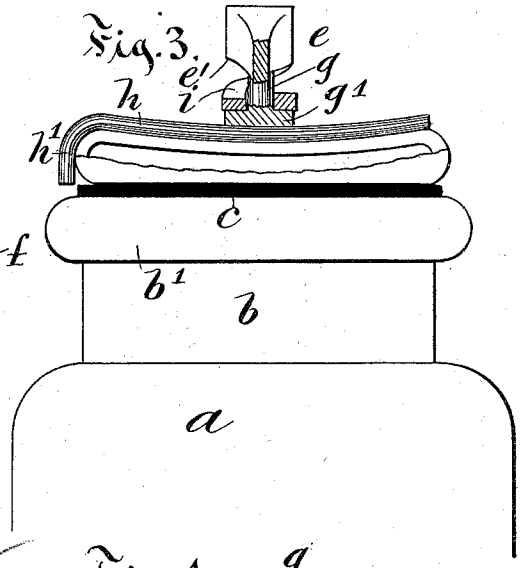


Fig. 2.

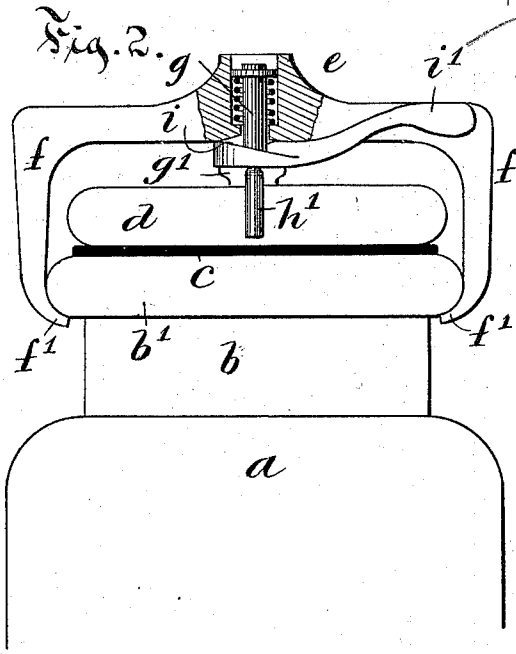
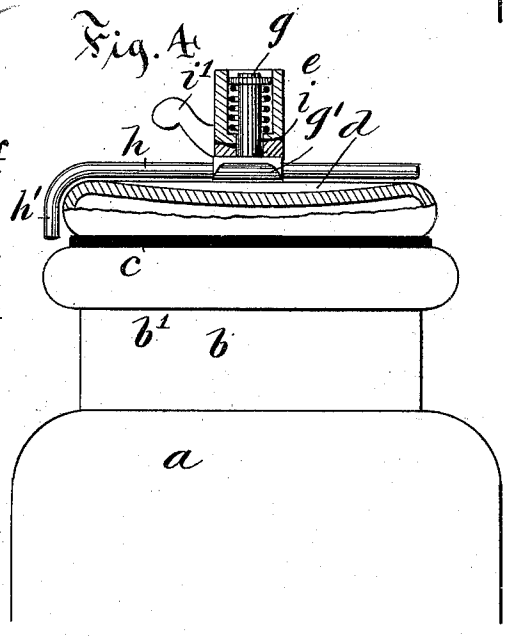


Fig. 4.



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UNITED STATES PATENT OFFICE.

FREDRICK MONIER, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR, BY MESNE ASSIGNMENTS, TO THE BARSTOW FRUIT JAR COMPANY, OF NEW JERSEY.

JAR-FASTENER.

SPECIFICATION forming part of Letters Patent No. 535,549, dated March 12, 1895.

Application filed November 12, 1894. Serial No. 528,471. (No model.)

To all whom it may concern:

Be it known that I, FREDRICK MONIER, a citizen of the United States, and a resident of New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Jar-Fasteners, of which the following is a full, clear, and exact description, whereby any one skilled in the art can make and use the same.

My improvement relates to the class of devices which are used for closing and sealing the mouth of a jar, and particularly one adapted for use as a preserve jar, and the object of my invention is to provide a fastener of the class which comprises a yoke extending transversely of the jar with holding arms which underlie a flange, the clamp being provided with means for more evenly distributing or locating the pressure upon the surface of the jar and in a manner to prevent a breaking strain upon the center; and a further object is to provide for promptly centering the fastener.

To these ends stated my invention consists in the details of the several parts making up the fastener as a whole and in the combination of the parts as more particularly hereinafter described and pointed out in the claim.

Referring to the drawings: Figure 1 is a detail top or plan view of a jar fitted with my improved fastener. Fig. 2 is a detail view in front elevation of the jar. Fig. 3 is a detail view in side elevation of the jar with parts of the fastener and cover broken away to show construction and with the clamp closed. Fig. 4 is a like detail view of the top of the jar in side elevation, with parts broken away to show the fastener, the clamp being thrown off.

In the accompanying drawings the letter *a* denotes a jar or like vessel, in this case one having a wide mouth, with a neck *b* having a shoulder *b'* formed by the outturned flange or bead. At the mouth of the jar there is formed a packing seat on which is located a packing *c* which is preferably a band of rubber or like elastic material and on this band a cover *d* is adapted to be placed and in such position closing the mouth of the jar.

The fastener *e* comprises a yoke shaped piece adapted to extend diametrically across the mouth of the bottle with downturned arms *f*, the lower ends forming hooks *f'* which are adapted to engage the shoulder *b'* so as to resist any upward strain upon the yoke.

At the center of the yoke a socket is formed in which a stud *g* is located, the lower broadened end *g'* of the stud having a transverse socket in which is located a bearing piece *h* one end downturned as at *h'* so as to enable it to engage the edge of the cover and form a stop which locates the yoke substantially in the center of the cover.

The downturned arms *f* on the yoke *e* and the bearing piece *h* with its downturned end *h'* provide three points by means of which the fastener as a whole is correctly centered with reference to the cover.

The top of the jar is recessed as appears in Figs. 3 and 4 of the drawings so as to permit of a slight downward flexing of the bearing piece which is made of an elastic but somewhat rigid material, the pressure coming upon the outer parts of the jar cover and not upon the center. The bearing piece is forced downward upon the top of the jar in the form of device shown by means of a cam *i* formed on the inner end of a cam lever *i'* which is pivoted on the rounded part of the stud and underlying a cam *e'* formed on the lower surface of the yoke. The cam is brought into play by a swinging movement of the lever which forces the stud downward and with it the bearing piece *h* which is supported by it.

As will be seen in Figs. 3 and 4 of the drawings the pressure is not exerted on the middle of the cover in a position which would be likely to break it but upon the outer edge and through the medium of a yielding bearing piece which has sufficient elasticity to provide for a yielding pressure instead of a positive pressure such as would be exerted in case the head of the stud were forced directly down upon the glass by the operation of the cam. These two advantages of a centering device in locating the fastener in place and a yielding pressure upon the cover of the jar in holding it in place are of material value in the operation of the fastener in increasing the rapidity with which the covers may be fastened to the jars with accuracy and the preventing of

breakage by utilizing a yielding or spring pressure instead of a positive thrust upon the inelastic cover.

I claim as my invention—

In combination with a jar having a neck provided with an exterior shoulder, a cover fitting the mouth of the jar and having a recessed upper surface, a rigid yoke extending transversely across the cover with downturned arms having inturned hooks adapted to engage the shoulder, a stud socket in the yoke, a non-rotary stud mounted in the socket in the yoke and having a broadened head, a cam lever pivoted to the stud, a bearing piece secured to the lower end of the stud and extending transversely of the yoke over and across the jar cover and having a downturned end adapted to engage the edge of the jar cover, all substantially as described.

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