

(No Model.)

W. HESTON & J. M. AKERS.

FRUIT JAR.

No. 371,685.

Patented Oct. 18, 1887.

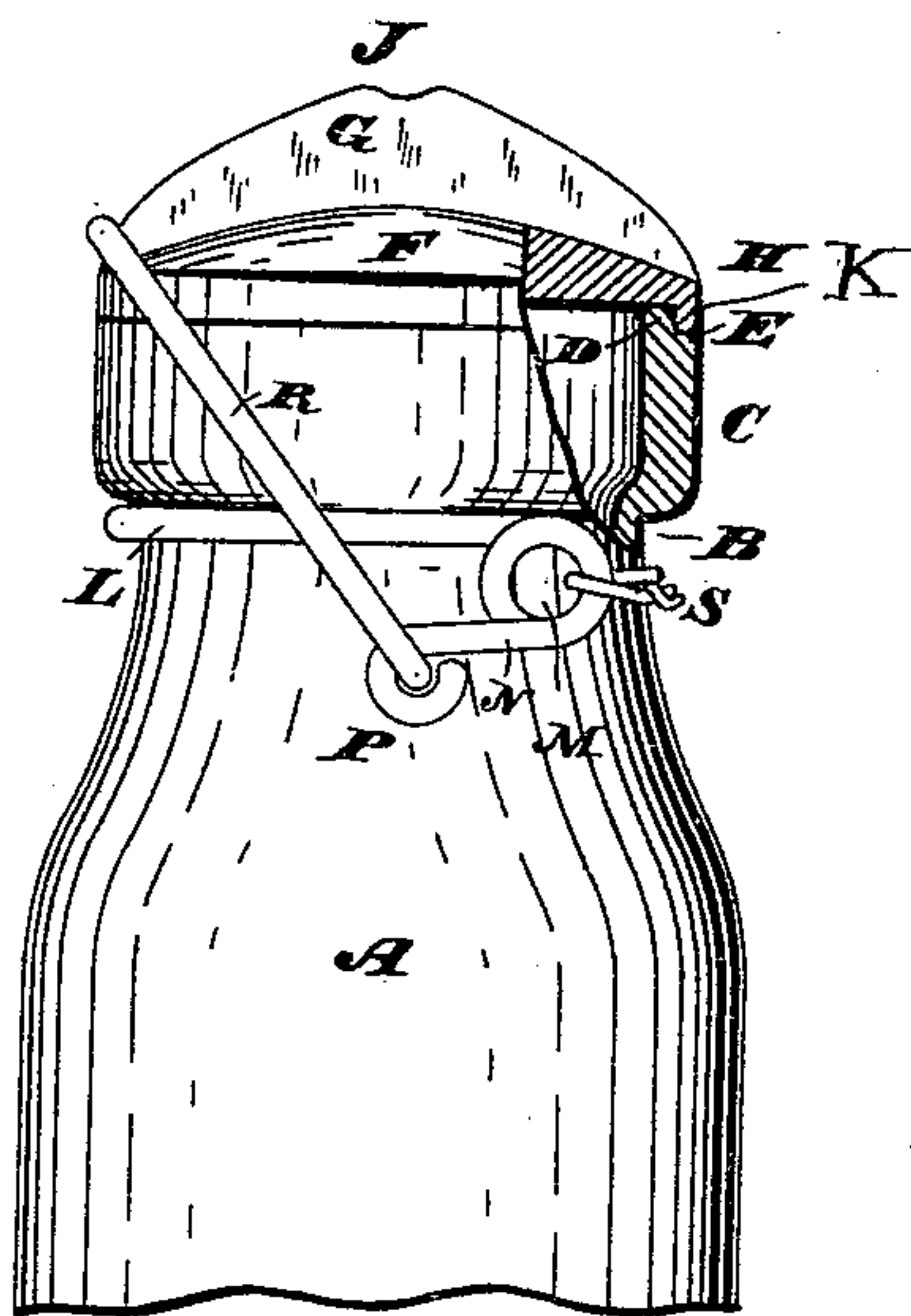


Fig. 2.

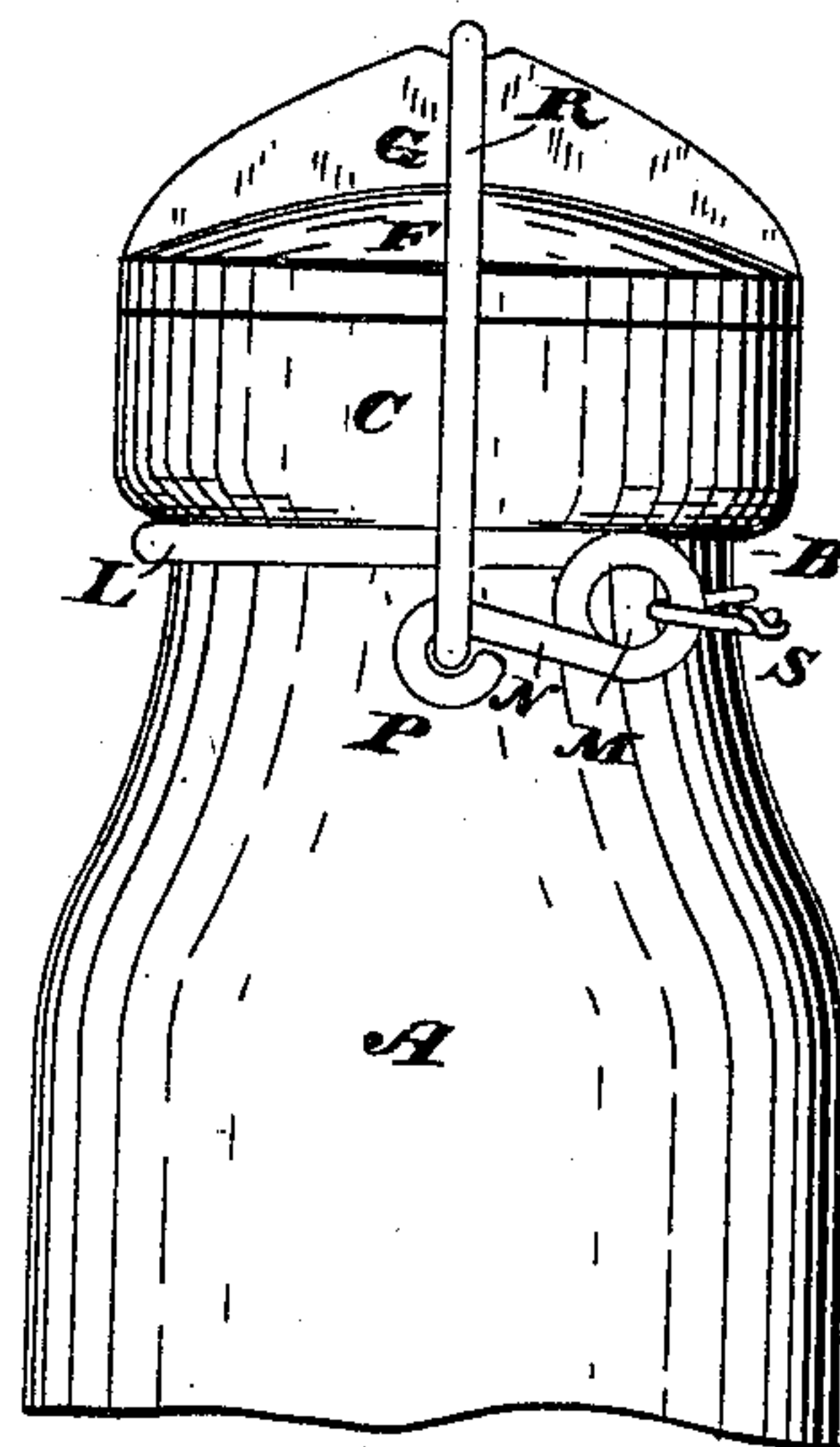


Fig. 1.

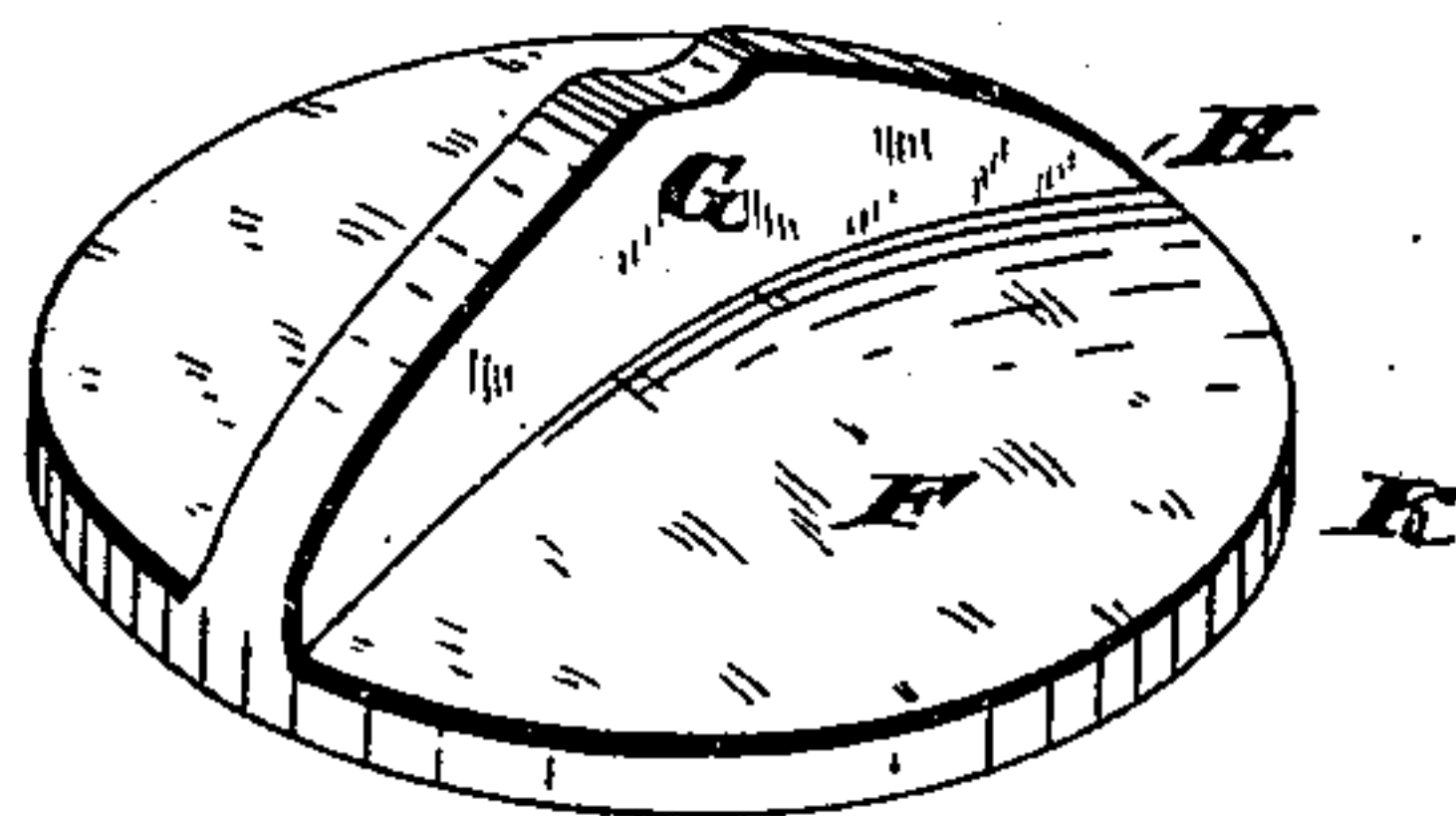


Fig. 3.

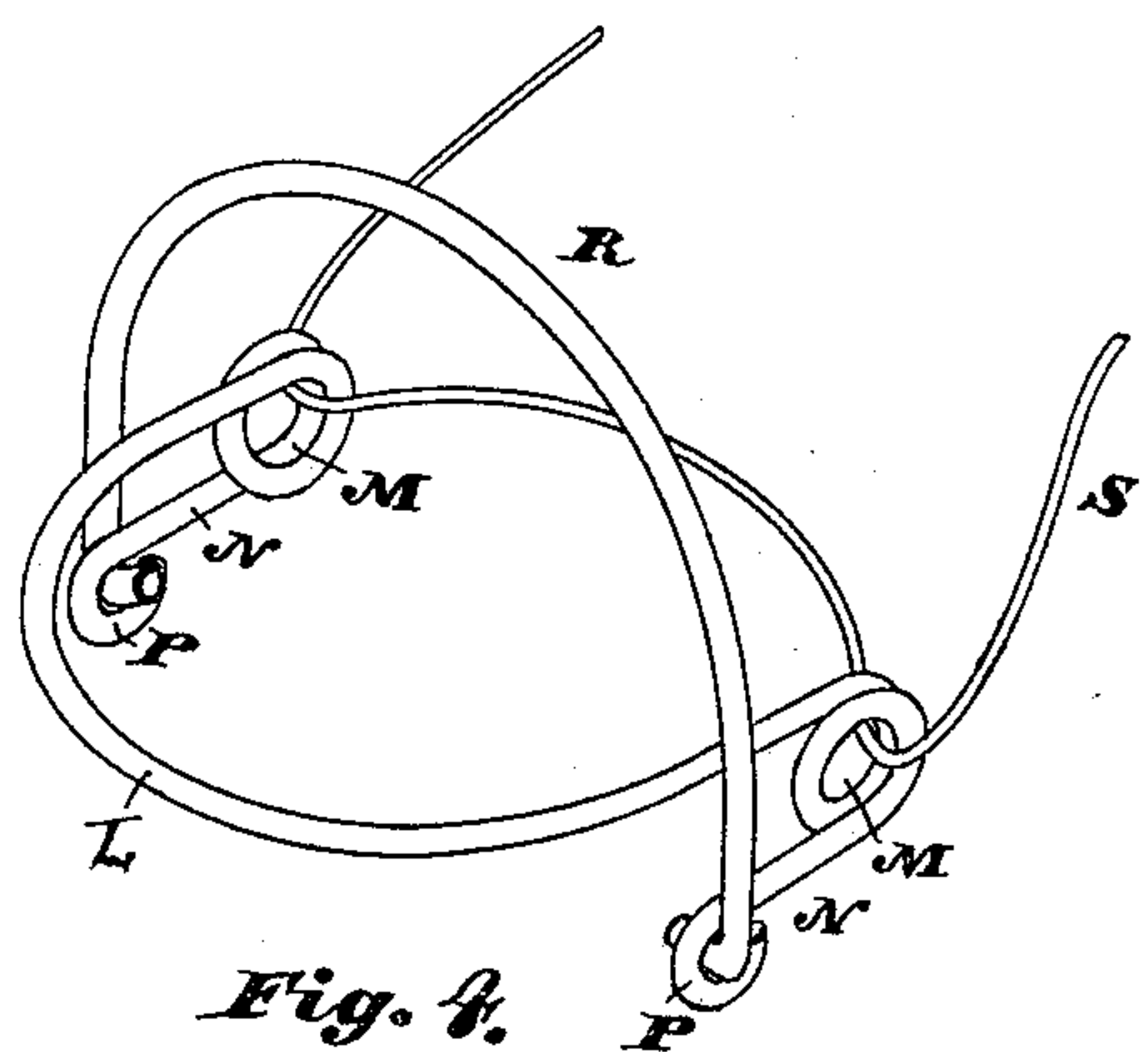


Fig. 4.

WITNESSES:

Harry Freese

Chas. R. Miller

William Heston
and
John M. Akers

INVENTORS

BY
W. H. Miller

ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM HESTON AND JOHN M. AKERS, OF ALLIANCE, OHIO.

FRUIT-JAR.

SPECIFICATION forming part of Letters Patent No. 371,685, dated October 18, 1887.

Application filed April 16, 1887. Serial No. 235,049. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM HESTON and JOHN M. AKERS, citizens of the United States, and residents of Alliance, county of Stark, State of Ohio, have invented a new and useful Improvement in Fruit Jars, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

This invention relates to improvements in fruit-jars and fasteners for fruit-jar lids; and it consists of the parts and combination of parts, as hereinafter described, and set forth in the claim.

Figure 1 is a view of a fruit-jar embodying my invention, and showing the fastener in use. Fig. 2 is a view of a fruit-jar, showing the fastener released and sectional view of parts. Fig. 3 is a view of the lid, and Fig. 4 an isometrical view of the fastener detached.

Similar letters of reference indicate corresponding parts in all of the figures of the accompanying drawings.

Letter A represents a fruit jar having a circumferential depression, B, and an annular upwardly-projected rim, C, on the upper face of which there is provided an annular upwardly-projected rib, D, and shoulder E. (See Fig. 2.)

The lid F is provided on its upper side with an upwardly-projected rib, G, of the form substantially as shown in Figs. 2 and 3, graded from the edges of the lid at H to the apex J, at which point there is a slight depression. On the under side of the lid there is provided a downwardly-projected annular rim, K.

The fastener may be made of any suitable material, preferably of brass or spring-steel wire, of about No. 10 for the ordinary-size jar and of a lower number for larger or wide-mouthed jars, and is of the form substantially as shown in Fig. 4, having a body portion, L, to embrace the neck of the jar A, as shown in Figs. 1 and 2. On the outer ends of the body portion are provided coiled springs M, terminating in downwardly and backwardly projected arms N, having eyes P formed on their outer or free ends, in which are placed the hooked ends of the bail R. The dimensions of the several parts should be such as to adapt the fastener to the required use. Ordinarily the body portion L should embrace about

two-thirds of the circumference of the neck of the jar, the arms N turned back, so as to bring the eyes P of the spring-arm N back to a line about vertically central to the jar.

It will be noticed that by the arrangement of the hereinbefore-described coiled springs and arms the energy of the springs is exerted downward on the bail continuously, overcoming all liability of the jar-lid becoming loose from expansion or contraction.

The fastener is secured to the neck of the jar, as shown, by the use of a piece of annealed wire, S, by which the body part L is drawn close to the neck of the jar, and the ends of the wire S are twisted together, as shown in Figs. 1 and 2. In use a gasket of rubber or other suitable material is used between the lid and the jar, which may be placed between the lid J and the rib D, or may be placed between the shoulder E and the rim K. In either case the gasket is between the lid and the jar. The bail R is forced up the grade of the rib G (beginning as shown in Fig. 2) until it rests in the depression J, and the energy of the springs M being exerted downwardly, the rib D will be passed into the gasket and the jar sealed. To open the jar it is only necessary to draw the bail down over the lid.

Having thus fully described the nature and object of our invention, what we claim, and desire to secure by Letters Patent, is—

The herein-described fastener for jar-lids, consisting, essentially, of a body portion formed of a spring-wire bent to embrace more than half the periphery of the neck, then coiled vertically on each side, as shown at M, to form a spring, thence extending backwardly along the sides of the neck to points diametrically opposite each other, or substantially so, and having its ends turned under to form eyes, as shown at P, a wire bail, R, having its ends pivoted in the eyes, and a tie, S, extending through the spring-coils to secure the fastener to the neck, substantially as set forth.

In testimony whereof we have hereunto set our hands this 8th day of April, A. D. 1887.

WILLIAM HESTON.
JOHN M. AKERS.

Witnesses:

DAVID FORDING,
O. B. HOOVER.