

No. 620,889.

Patented Mar. 14, 1899.

C. K. COOPER.  
JAR CLOSURE.

(Application filed Sept. 15, 1898.)

(No Model.)

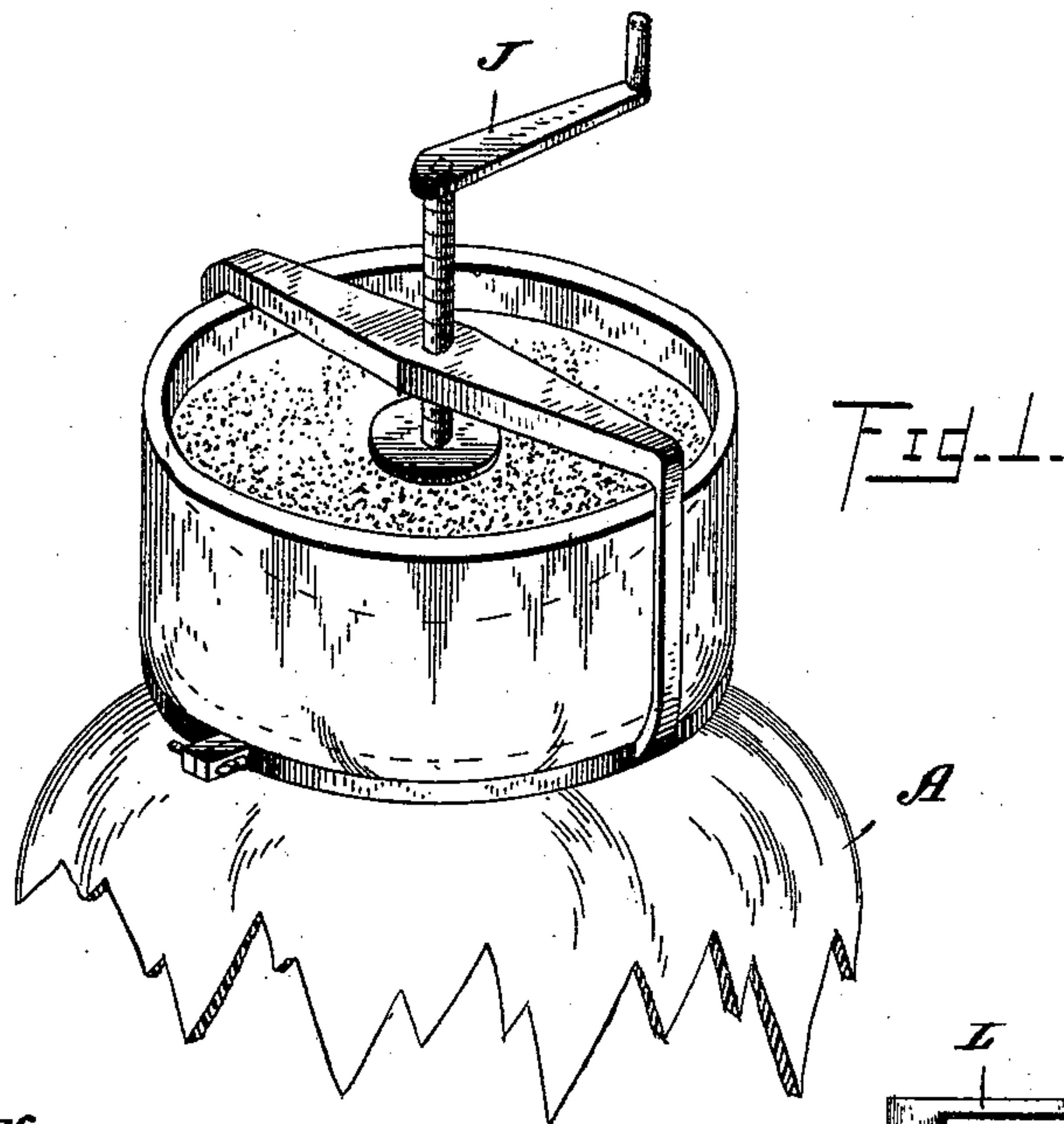


Fig. 1.

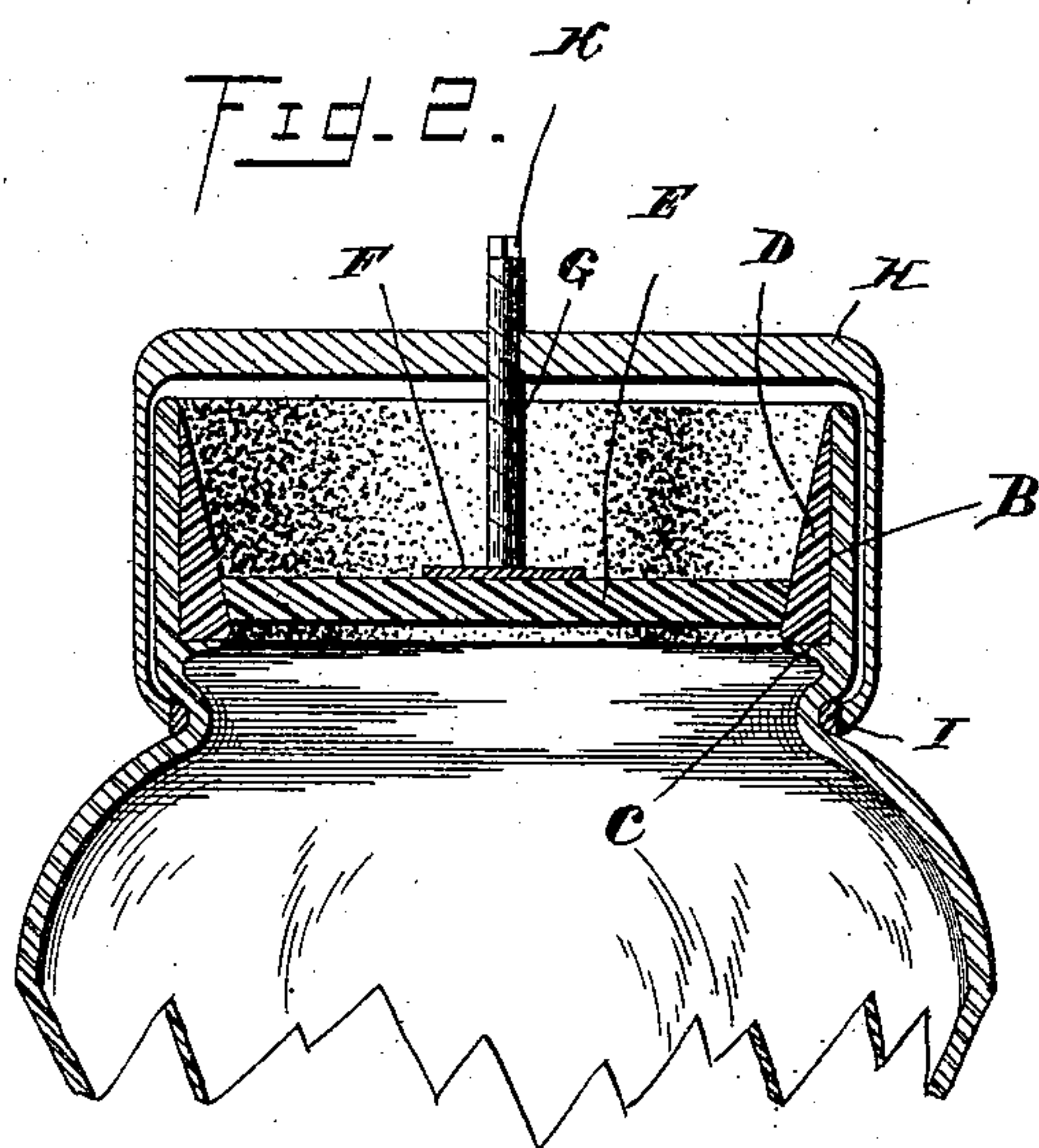


Fig. 2.

Fig. 3.

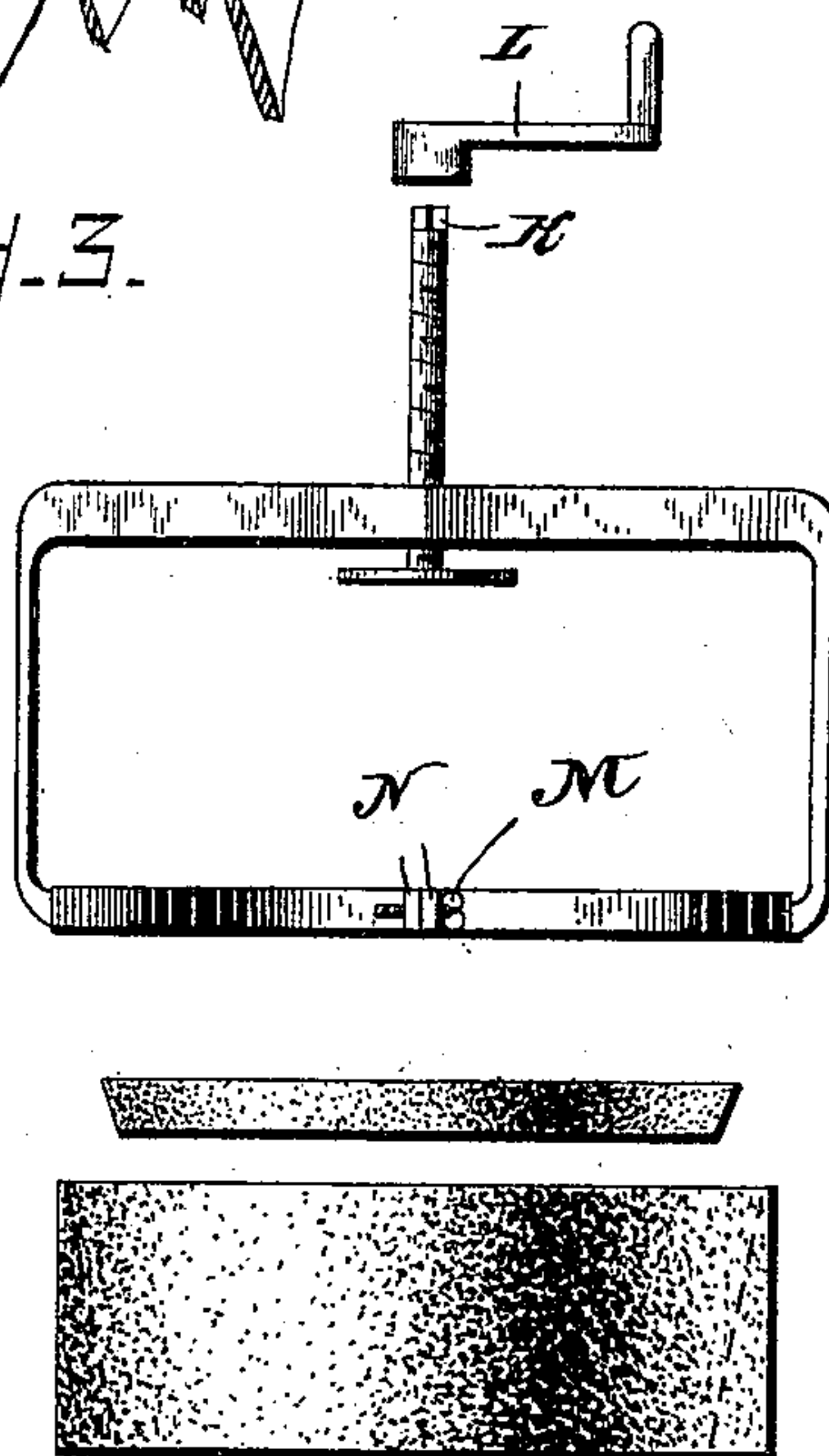
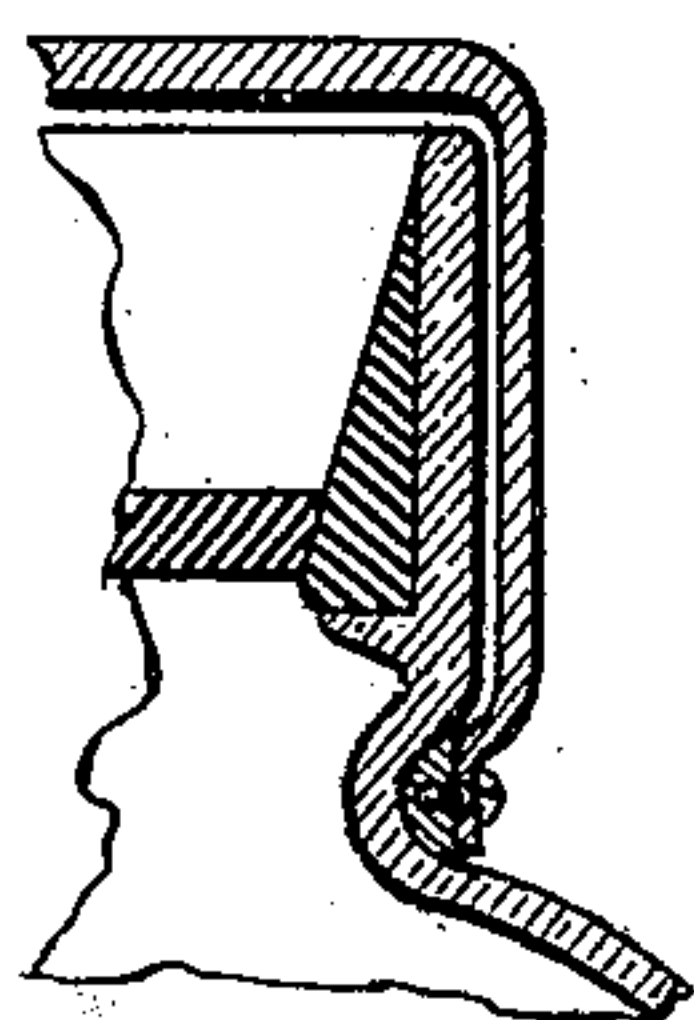


Fig. 4.

Witnesses.

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# UNITED STATES PATENT OFFICE.

CALVIN KNOX COOPER, OF CARUS, OREGON.

## JAR-CLOSURE.

SPECIFICATION forming part of Letters Patent No. 620,889, dated March 14, 1899.

Application filed September 15, 1898. Serial No. 690,992. (No model.)

*To all whom it may concern:*

Be it known that I, CALVIN KNOX COOPER, a citizen of the United States, residing at Carus, in the county of Clackamas and State of Oregon, have invented a new and useful Jar-Closure, of which the following is a specification.

My invention relates to fruit-jar closures, and has for its object to provide a simple, cheap, durable, and effective device of this class.

With this object in view my invention consists in a stopper for fruit-jars, comprising a rubber ring or collar adapted to be seated in the mouth of a jar, with its inner end resting upon an annular shoulder formed therein, the body of the collar tapering toward its outer edge, a disk of rubber adapted to be seated within the rubber collar, a metallic ring secured around the outside of the jar, a yoke secured to or forming part of said ring and passing up and across the mouth of the jar, a screw-threaded stem seated in a threaded opening in the center of the yoke, and a flat head on the inner end of the screw-threaded stem adapted to bear against and press inward the rubber disk.

My invention further consists in the improved construction, arrangement, and combination of parts hereinafter fully described and afterward specifically pointed out in the appended claims.

In order to enable others skilled in the art to which my invention most nearly appertains to make and use the same, I will now proceed to describe its construction and operation, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view of the upper part of a jar equipped with my invention. Fig. 2 is a vertical transverse section through the same parts. Fig. 3 is a view in side elevation of the various parts composing my invention detached from each other and from the jar. Fig. 4 is a detail sectional view of a modification.

Referring to the drawings by letters, A indicates the body of the jar, which is provided with an outside groove at its junction with the mouth B and with an inwardly-projecting annular flange or shoulder C.

D indicates a ring or collar, of rubber, thicker at the bottom than at the top, seated within the neck B of the jar, with its lower end resting upon the collar C.

E indicates a disk of rubber, adapted to be pressed into the interior of the rubber collar, as shown in Fig. 2.

F indicates a disk adapted to bear upon the upper face of the rubber disk and secured to the lower end of the threaded stem G, which passes upward through the center of a yoke H, secured to or formed integrally with a ring I, seated in the outside groove of the jar between the body and the neck thereof, as before stated.

The threaded stem E may be provided with a permanent handle of any kind, as at J, Fig. 1, or may have its upper end prepared, as at K in Figs. 2 and 3, to receive a removable crank-handle L.

The jar having been filled with fruit or other material to be preserved, the rubber collar D is placed in position in the neck, with its lower end resting upon the internal flange C. The disk E is then placed in position in the tapering space inside the walls of the collar D, pressed tightly downward therein until tightly seated by turning the threaded stem G and forcing the metallic disk F downward upon the upper face of the rubber disk. The ring I is secured in the outer groove between the body and neck of the jar by means of a thumb-screw M, passing through flanges N, turned outward at the ends of the ring.

While I have illustrated the yoke as being permanently secured to or formed integrally with the ring I, it will be readily understood that these two parts may be pivotally attached to each other, as illustrated in Fig. 4, and while I have illustrated and described the best means now known to me for carrying out my invention I do not wish to be understood as restricting myself to the exact details of construction shown and described, but hold that any slight changes or variations, such as might suggest themselves to the ordinary mechanic, would properly fall within the limit and scope of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination with the jar provided

with an internal annular flange or shoulder, of a rubber collar fitting within the neck of the jar and resting at its lower end upon said collar, said collar decreasing in thickness to-  
5 ward the mouth, a disk of rubber seated in the tapering space within the collar, a metal disk resting upon the upper face of the rubber disk, a vertical stem secured to the metal disk, and a yoke provided with a central  
10 threaded opening in which said threaded stem operates to press the rubber disk inward, substantially as described.

2. The combination with a jar provided with a groove in its outer surface at the junction  
15 of the body and neck and an internal annular flange or shoulder at the inner end of the

neck, of a rubber collar seated in the neck and resting at its inner end upon said inner flange, a rubber disk seated in the rubber collar, a metal ring secured in the outside groove, 20 a yoke attached to the metal ring and passing over the top of the jar, provided with a vertical threaded opening, a vertical threaded stem engaged in said opening, and a metal disk secured to the inner end of said stem and 25 adapted to press the rubber disk inward, substantially as described.

CALVIN KNOX COOPER.

Witnesses:

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JAMES P. LORETT.