

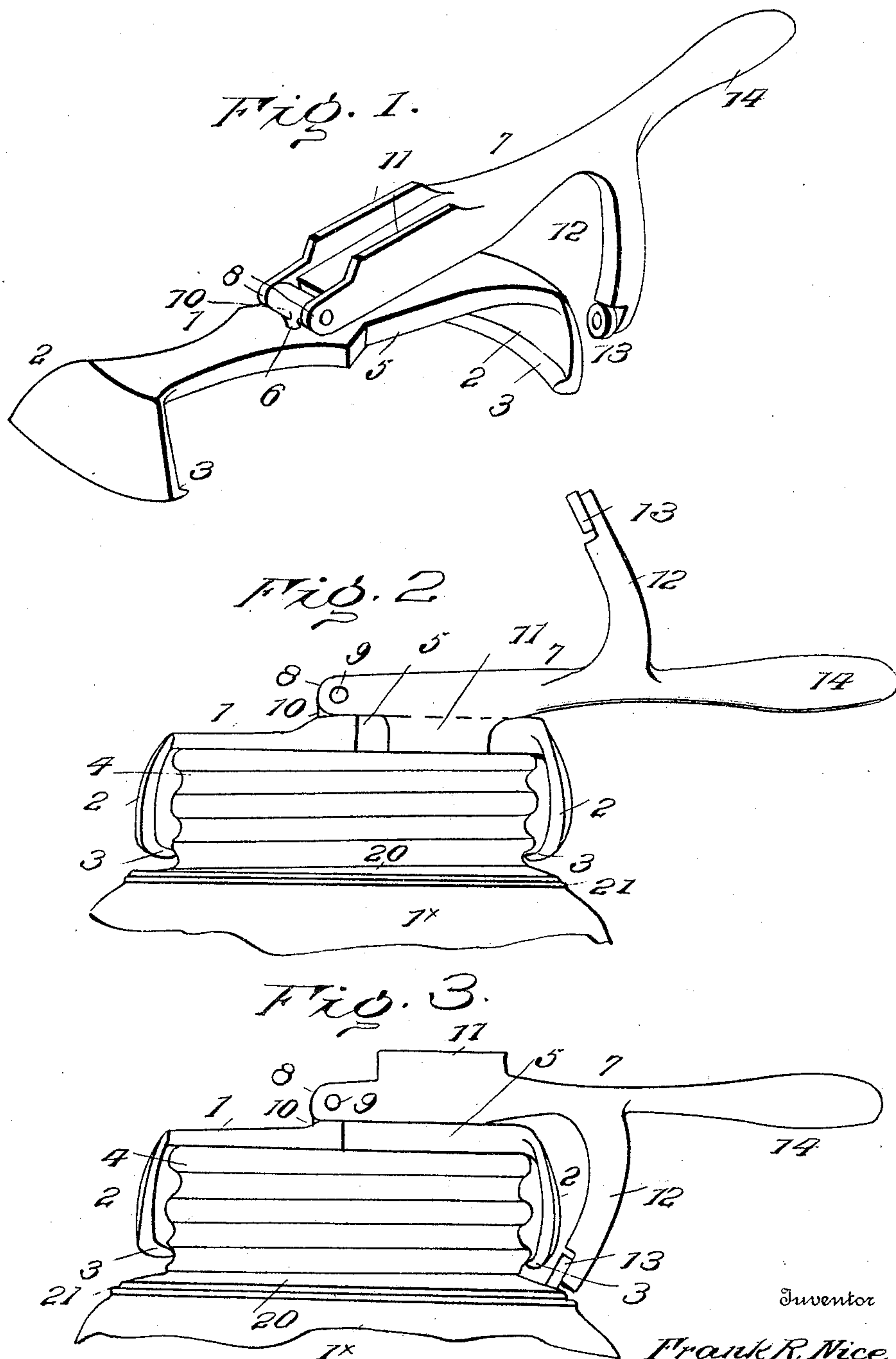
No. 799,400.

PATENTED SEPT. 12, 1905.

F. R. NICE.
JAR CLOSURE TOOL.

APPLICATION FILED JAN. 14, 1905.

2 SHEETS—SHEET 1.



Witnesses

R. B. Williams
S. R. Thomas

By

Frank R. Nice
Attorney

Inventor

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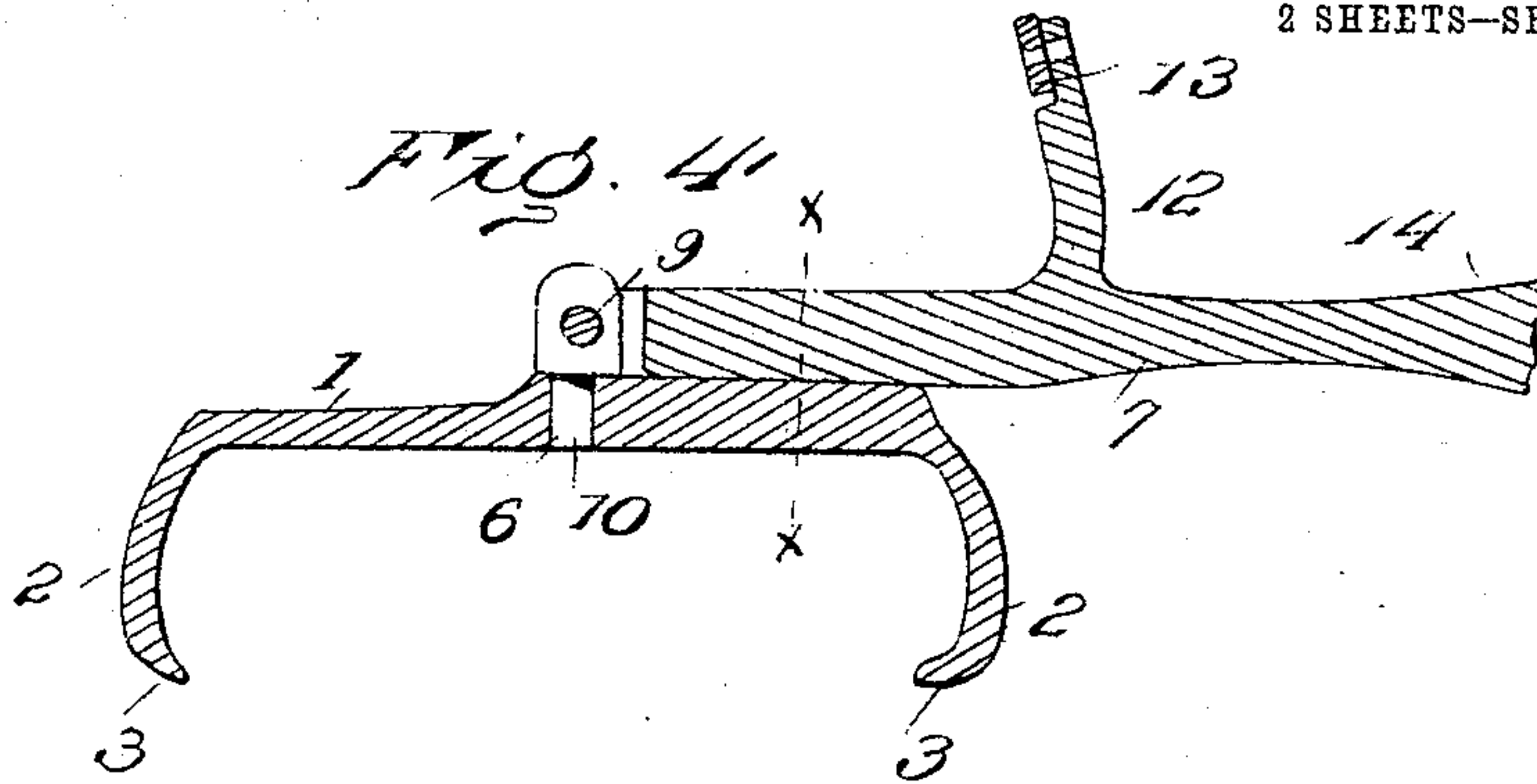


FIG. 5

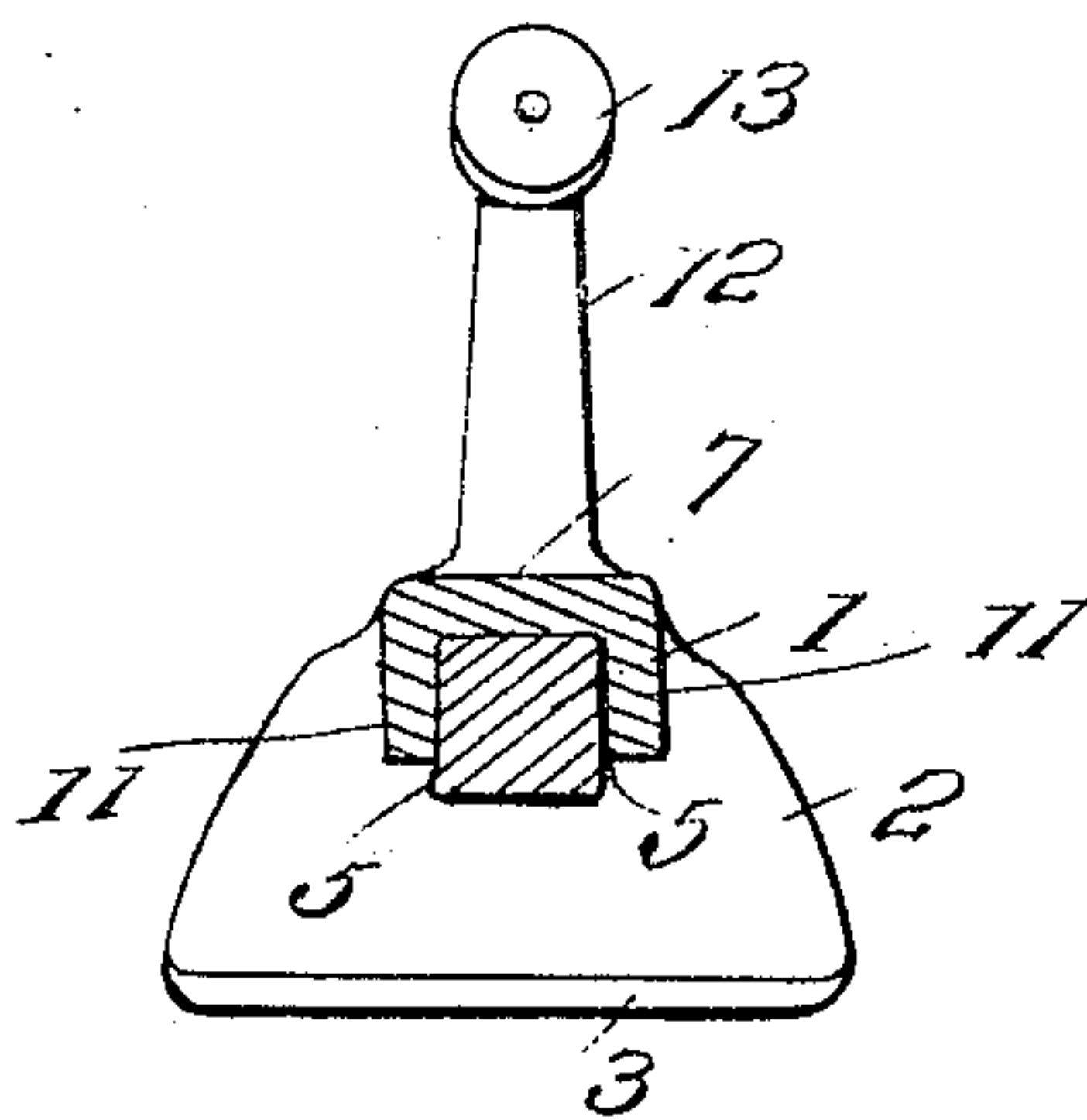
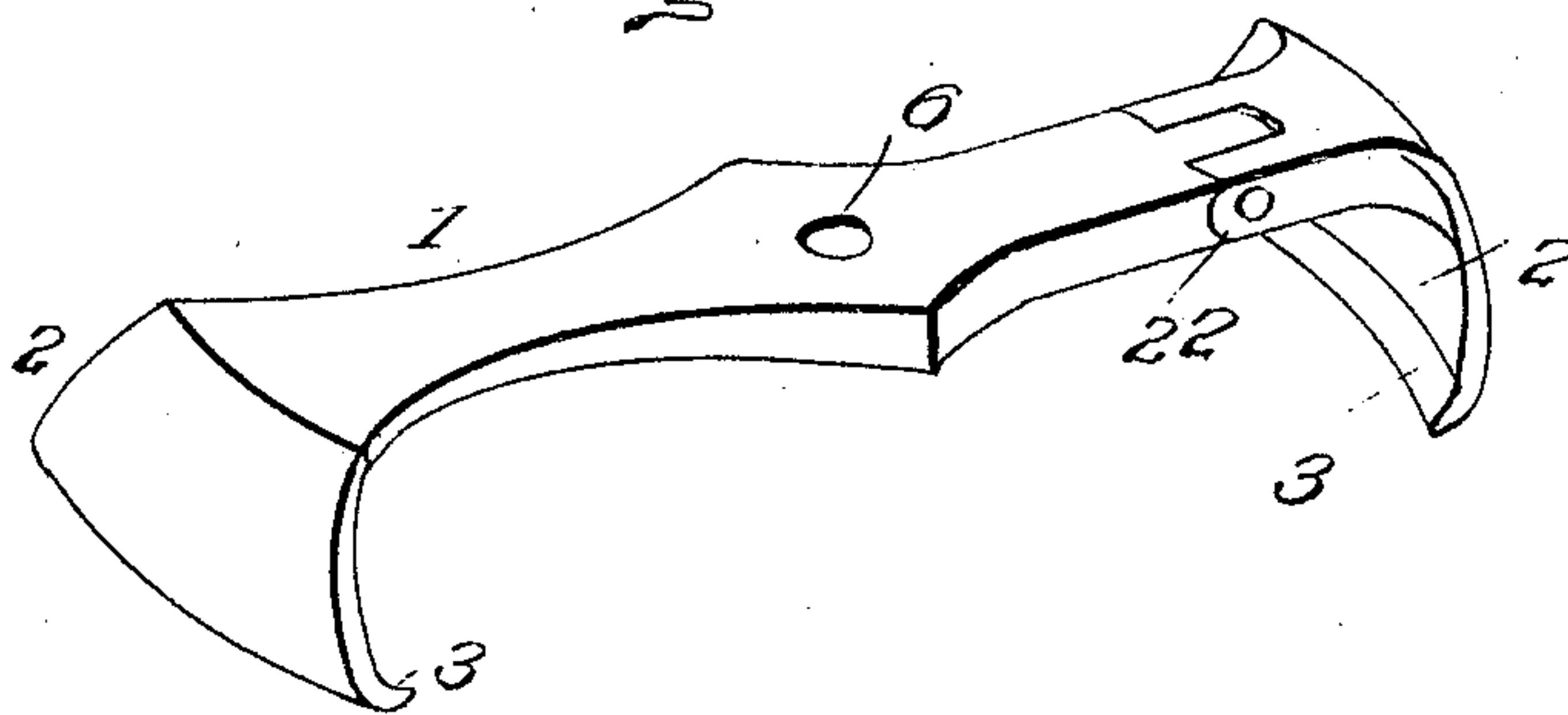


FIG. 6



Witnesses

A. B. Williams
J. R. Thomas

Inventor
Frank R. Nice

By *John D. Miller*
Attorney

UNITED STATES PATENT OFFICE.

FRANK R. NICE, OF LANSING, MICHIGAN.

JAR-CLOSURE TOOL.

No. 799,400.

Specification of Letters Patent.

Patented Sept. 12, 1905.

Application filed January 14, 1905. Serial No. 241,141.

To all whom it may concern:

Be it known that I, FRANK R. NICE, a citizen of the United States, residing at Lansing, in the county of Ingham and State of Michigan, have invented new and useful Improvements in Jar-Closure Tools, of which the following is a specification.

This invention relates to improvements in devices for securing closures to the top of jars.

The object of the invention is to provide a tool comprising a plate for engaging the threads of a jar-closure, a lever swiveled to the plate and provided with flanges to engage therewith to turn it, and a crimping-roller to crimp the lower edge of the closure into or down on the sealing-gasket.

The invention also comprehends improvements in the specific details of construction, as will be hereinafter described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of the invention. Fig. 2 is a side elevation illustrating the first step in the operation of my invention. Fig. 3 is a similar view showing the next step in the operation of the invention. Fig. 4 is a central vertical section. Fig. 5 is a transverse section on the line *xx*, Fig. 4. Fig. 6 is a view of a modification.

The same numerals refer to like parts in all the figures.

1 indicates a plate having downwardly-extending flanges 2 at opposite sides, each flange provided with an inwardly-extending rib 3 to engage the threads of a closure 4. The plate 1 has straight side walls on one side the center, and at the center is formed an opening 6.

7 indicates an operating-lever having perforated ears 8 at one end, through which passes a pin 9 to pivot a swiveled bearing-post 10, adapted to fit in the opening 6. On one surface of the lever 7 and adjacent the ears 8 are a pair of parallel flanges 11, spaced to fit the walls 5 of the plate 1. Projecting from the lever in an opposite direction from the flanges 11 is an arm 12, carrying a crimping-roller 13, the handle 14 extending outwardly from the arm.

In operation the closure 4 of threaded type is screwed on the mouth of the jar 1^x. Then the plate 1 is screwed on the threads of the closure, and the lever is turned on the post 9 and positioned to engage the flanges 11 11

with the walls 5. The operator now turns the lever, and by the connection with the plate the latter is screwed down hard on the closure, which in turn screws said closure tight on the jar. After the closure is screwed down as tight as desired the lever is elevated to disengage the flanges 11 11 from the walls 5, and it is turned around on the post 9 to bring the arm 12 down toward the jar-closure. This having been done and the plate 1 still tightly holding the closure, pressure is applied to the lever to cause the roller 13 to bear hard on the flange 20, the lever is turned around several times, and the flange 20 is crimped tightly into the gasket 21. The crimping action having been accomplished, the lever is again turned over to engage the flanges 11 11 with the walls 5, and the movement is reversed to disengage the flanges 2 from the closure.

My invention is extremely simple and durable and is capable of effectually screwing a closure and crimping its edge to tightly engage the gasket to prevent the admission of air to the jar.

In the modification shown in Fig. 6 I show the plate 1 hinged, as at 22, to adapt the invention to closures of varying sizes. In other respects the details are the same as hereinbefore described.

What I claim as new is—

1. A tool of the character described comprising a plate having means for engaging a jar-closure and provided with opposite edges with which a lever engages, said lever being provided with opposite flanges to engage the opposite edges of the plate to turn it and a roller to crimp the closure, and a swiveled connection between the lever and the plate.

2. A tool of the character described, comprising a plate having means for engaging a jar-closure, a lever provided on one surface with means to engage the plate and an arm bearing a roller projecting from the opposite surface of the lever to crimp the closure, and a swiveled connection between the lever and plate to operatively position either the means for engaging the plate or the projection carrying the roller.

3. A tool of the character described, comprising a plate having means for engaging a jar-closure and provided with opposite edges with which a detachable lever engages, said detachable lever being provided with opposite flanges which engage the opposite edges of

the plate for turning the said plate and means on the lever for crimping the closure after it has been screwed in place.

4. A tool of the character described, comprising a plate, a lever, a pivot-post engaging an opening formed in the plate, a pivot connecting the lever and the post, flanges extending from the lever to engage and turn the plate when lateral pressure is applied to the lever, and an arm bearing a roller projecting from the lever to crimp a jar-closure, the lever or the flanges being brought into operative position by turning the lever on the pivot-post.

5. A tool of the character described, comprising a plate provided with depending flanges with projections to engage the threads of a jar-closure, an operative surface formed on the plate, and a lever swiveled to the plate,

said lever having flanges to engage the operative surface of the plate and an arm bearing a roller to crimp the closure, the flanges or the roller being brought into operative position by turning the lever on the swivel.

6. A tool of the character described, comprising a plate composed of hinged sections and provided with means for engaging a jar-closure, and a detachable lever swiveled to the plate, the lever having means on one side to turn the plate and means on the opposite side for crimping the closure.

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

FRANK R. NICE.

Witnesses:

JOHN J. ZIMMER,
P. H. DOLAN.