

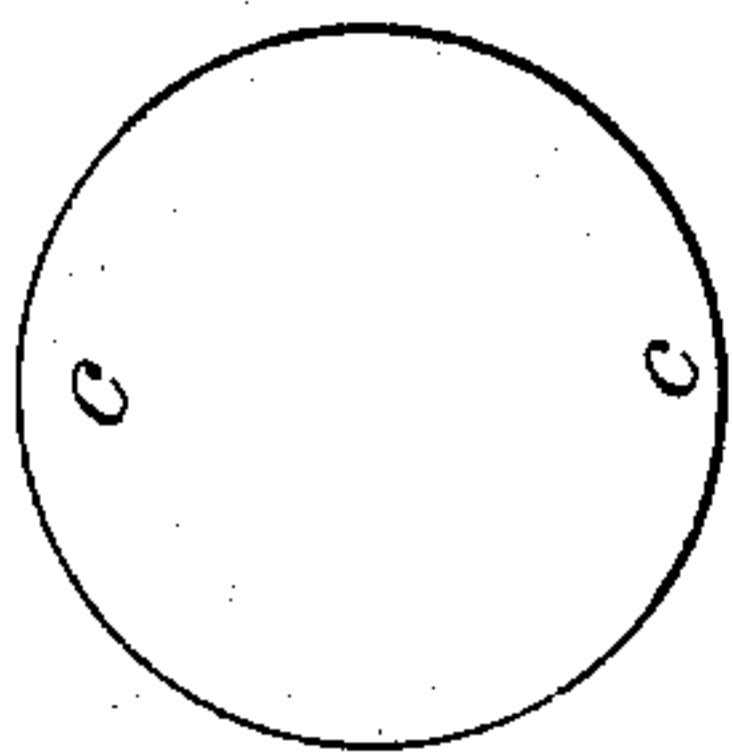
*N. Thompson*

*Bottle Stopper.*

*N<sup>o</sup> 69,143.*

*Patented Sep. 24, 1867.*

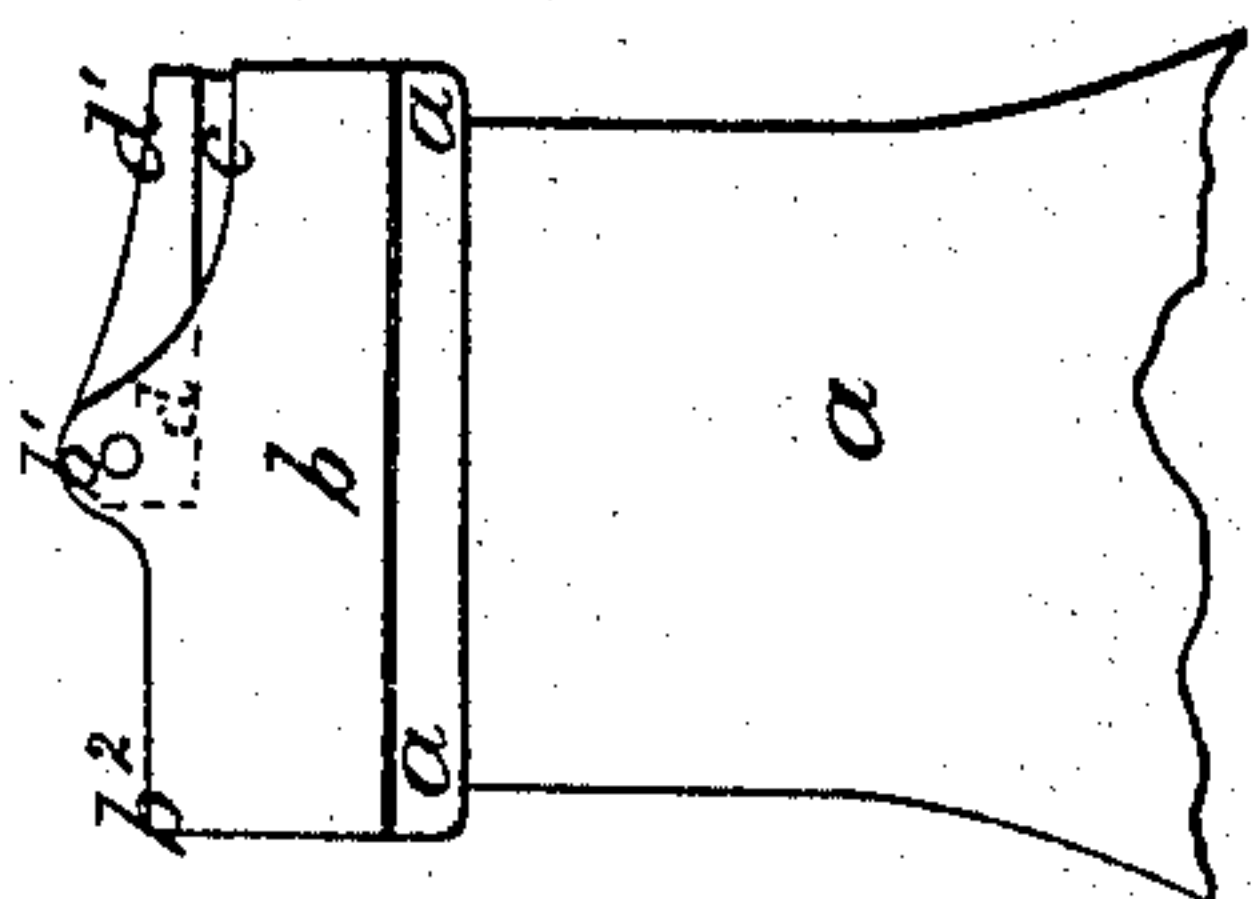
*Fig. 5.*



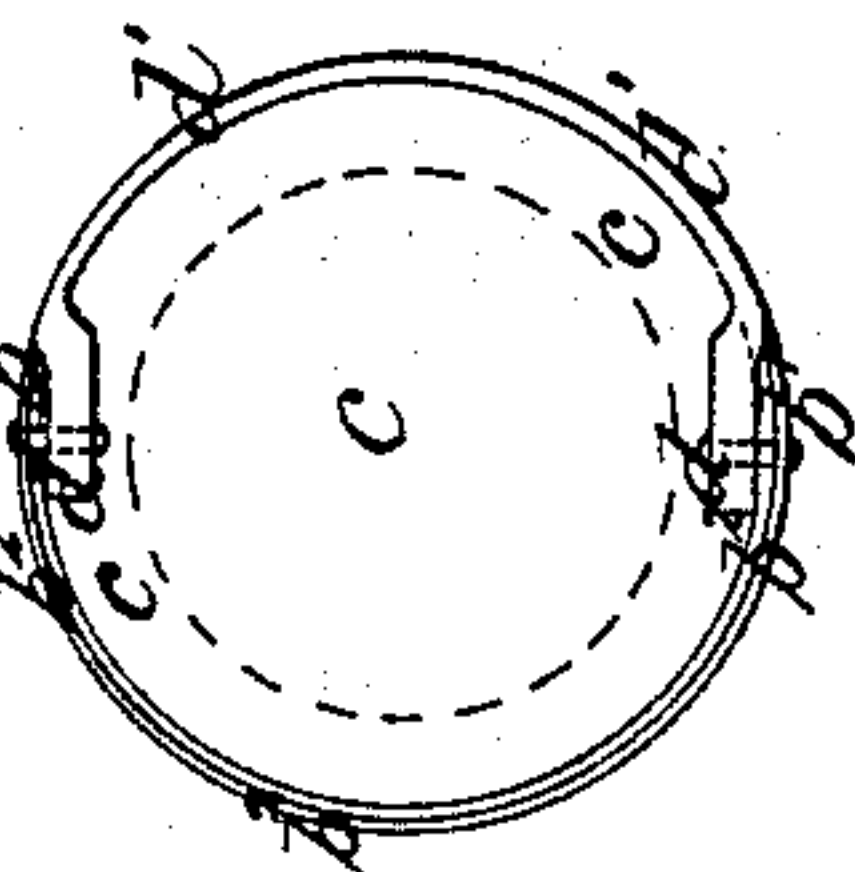
*Fig. 6.*



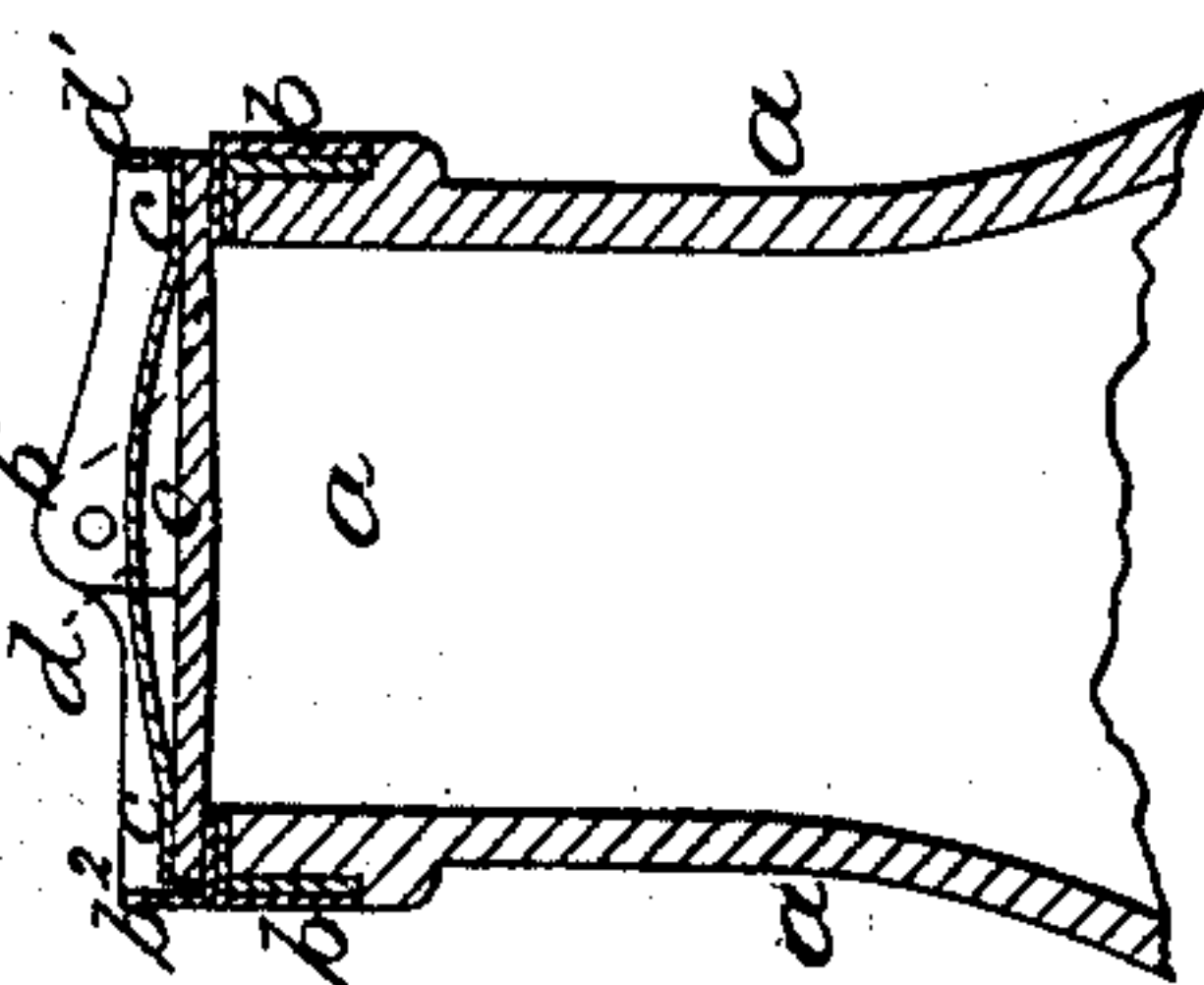
*Fig. 2.*



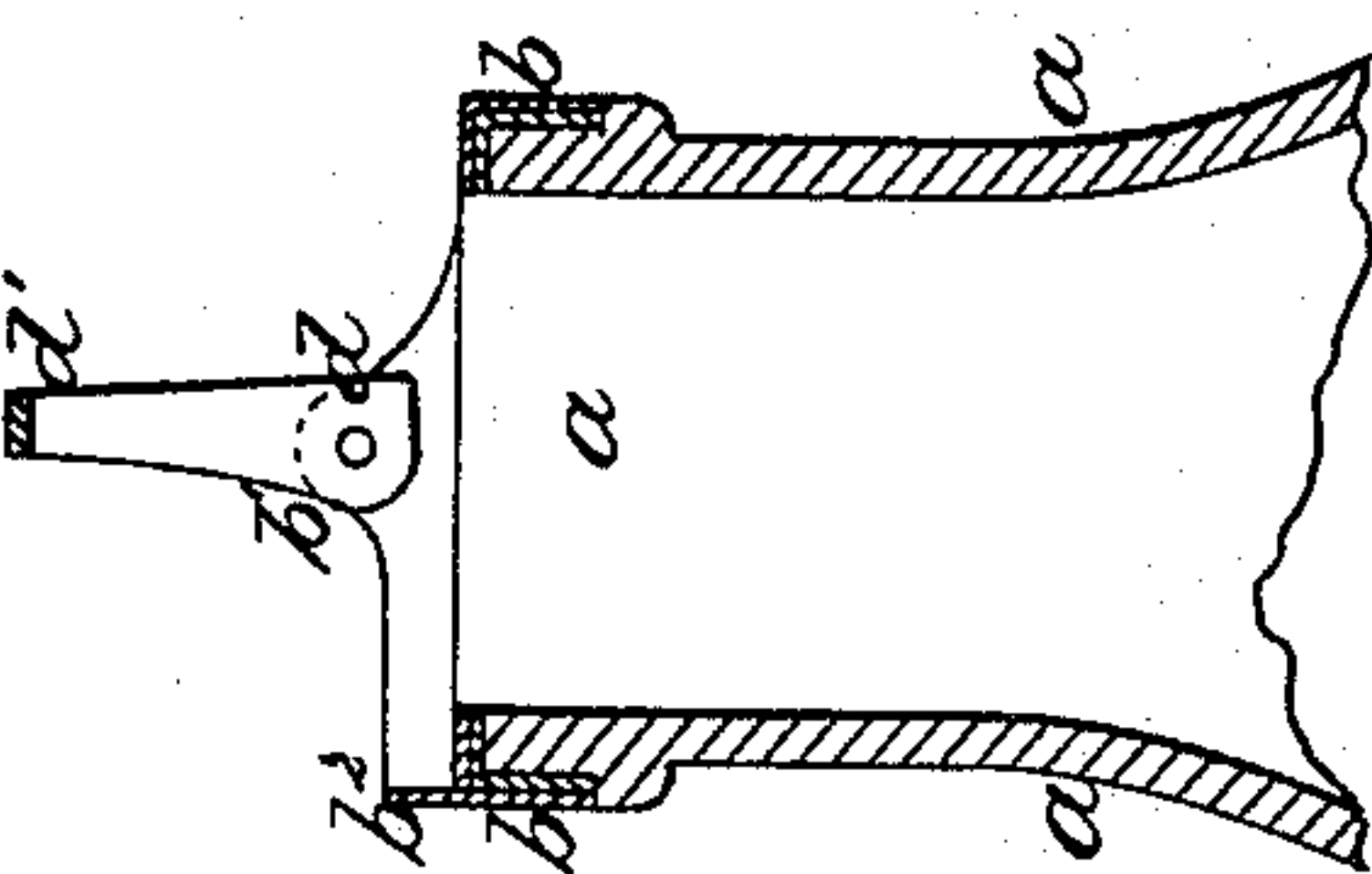
*Fig. 4.*



*Fig. 1.*



*Fig. 3.*



*Witnesses:*  
*Edw. Harris*  
*W. B. Mills*

*Inventor:*

*N. Thompson*

# United States Patent Office.

NATHAN THOMPSON, OF ST. JOHN'S WOOD, ENGLAND.

Letters Patent No. 69,143, dated September 24, 1867; patented in England March 28, 1867.

## IMPROVED MODE OF CLOSING THE MOUTHS OF BOTTLES, JARS, AND OTHER VESSELS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL TO WHOM IT MAY CONCERN:

Be it known that I, NATHAN THOMPSON, of 15 Abbey Gardens, St. John's Wood, in the county of Middlesex, England, a citizen of the United States of America, have invented or discovered new and useful "Improvements in Means or Apparatus for Closing the Mouths of Bottles, Jars, and other Vessels;" and I, the said NATHAN THOMPSON, do hereby declare the nature of the said invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement thereof, that is to say:

For this purpose I form or fix on the neck of a bottle, jar, or other vessel, two or more lugs or projections; and to such lugs or projections I connect, by pin-joint or other equivalent means, cams, eccentrics, or pressing-pieces; and I prefer to connect two of such cams, eccentrics, or pressing-pieces together by a metal handle of a semicircular form. The stopper is formed of a plate of metal or other suitable material, lined on its under side with cork or other suitable yielding material; and partly around the neck of the bottle, jar, or other vessel, I form or affix a rim or projection for the purpose of guiding the stopper to its correct position.

In closing the mouth of a bottle, jar, or other vessel, the stopper is placed in position under the cams, eccentrics, or pressing-pieces, which, at such time, are in position to admit of so doing, the handle or handles thereof being in a vertical position or approaching thereto. Such handle or handles are then depressed until they lie close to the mouth of the bottle, jar, or other vessel, when the stopper will be suitably pressed thereto, in which position the handles have a tendency to remain until force is applied thereto to raise them. By these means a secure stopping of such mouth is effected. And in order that my invention may be more fully understood and readily carried into effect, I will proceed, aided by the accompanying drawings, more fully to describe the same.

#### *Description of the Drawings.*

Figure 1 is a vertical section of a portion of a bottle with my improvements applied thereto, and showing the mouth thereof firmly closed.

Figure 2 is a side view thereof, with the parts in a similar position.

Figure 3 is a section thereof, showing the stopper removed.

Figure 4 is a plan thereof, and

Figures 5 and 6 are separate views of the stopper.

*a a* is the neck of a bottle, having a ring, *b*, fixed thereto by cement or other suitable means. On such ring are formed lugs or projections *b'*, and a rim, *b''*, serving as a guide to enable the stopper *c* to be correctly placed in position. To the lugs or projections *b'* are connected, by pin-joint, cams, eccentrics, or pressing-pieces *d*, of which, as shown in the drawings, for small vessels, I prefer to employ two, connected together by a semicircular handle, *d'*. The stopper *c* is, as shown, lined on the under side with cork or other suitable yielding material, suitably cemented or otherwise fastened thereto.

When it is desired to close the mouth of a bottle, jar, or other vessel having my improvements applied thereto, the handle *d'* is raised into the position shown at fig. 3, thereby turning the cams, eccentrics, or pressing-pieces *d* on their centres of motion, to enable the stopper *c* to be readily placed in position under them. The handle *d'* is then turned down into the position shown at figs. 1, 2, and 4, when the mouth of the bottle, jar, or other vessel, will be securely closed, the handle *d'*, by the form of the cams, eccentrics, or pressing-pieces, having a tendency to remain in this position until force is applied to raise it. To remove the stopper *c*, the handle *d'* is raised to relieve the stopper from the pressure of the cams, eccentrics, or pressing-pieces *d*, when the stopper *c* may be readily removed.

Although, in the drawing, I have shown my improvements applied to the neck of a bottle, jar, or other vessel, by being cemented or otherwise fastened thereto, I would have it understood that, in some cases, I form the parts *b*, *b'*, and *b''* upon the neck of the vessel, and in one piece therewith; and although only two cams, eccentrics, or pressing-pieces are shown, other numbers may be employed, as will be readily understood.

Having thus described the nature of my invention, and the mode in which I carry the same into effect, I would have it understood that I do not confine myself to the precise details herein shown and described, so long as the peculiar character of my invention be retained; but what I do claim, is—

1. The combination and arrangement of means or apparatus for closing the mouths of bottles, jars, and other vessels, substantially in the manner herein shown and described; and

2. I claim the employment of cams, eccentrics, or pressing-pieces *d*, acting to press the stopper *c* firmly to the neck of the bottle, jar, or other vessel, so as to close the mouth thereof, substantially in the manner herein shown and described.

NATHAN THOMPSON.

Witnesses:

E. S. RENWICK,

HENRY B. RENWICK.