2 Sheets--Sheet 1.

J. OESTERLING.

Improvement in the Manufacture of Stemmed Glassware.

No. 132,216. Patented Oct. 15, 1872.

Fig. 1.

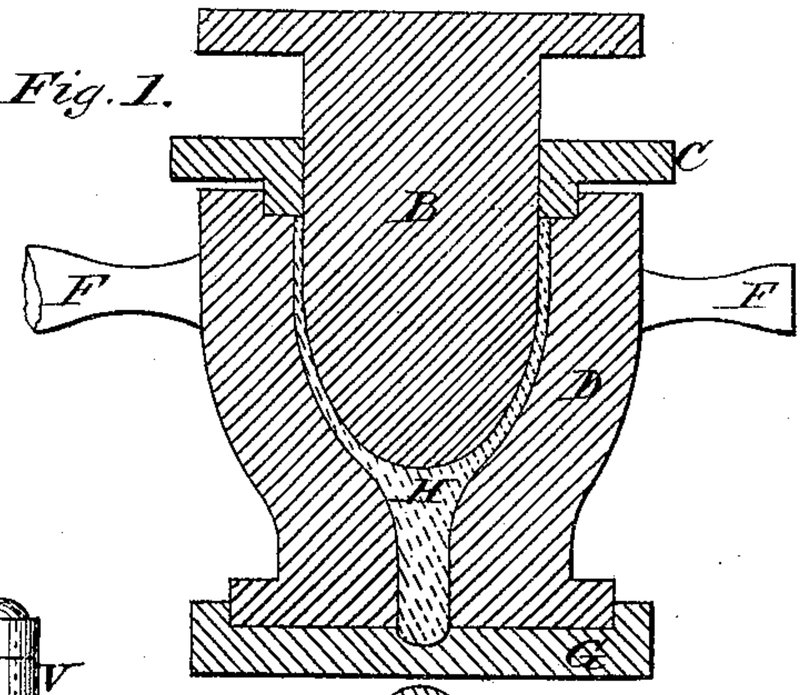


Fig. 2.

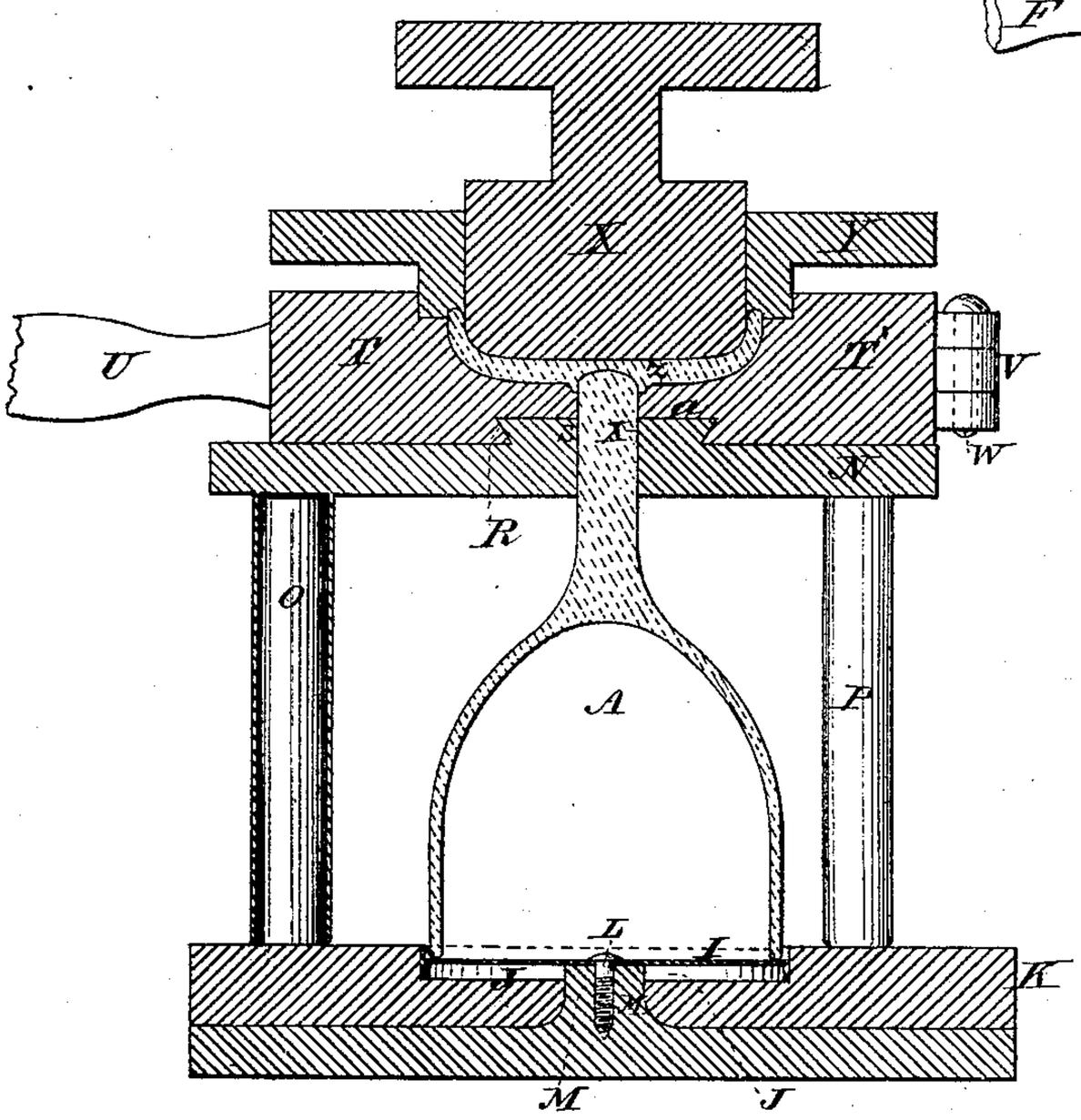


Fig. 4.

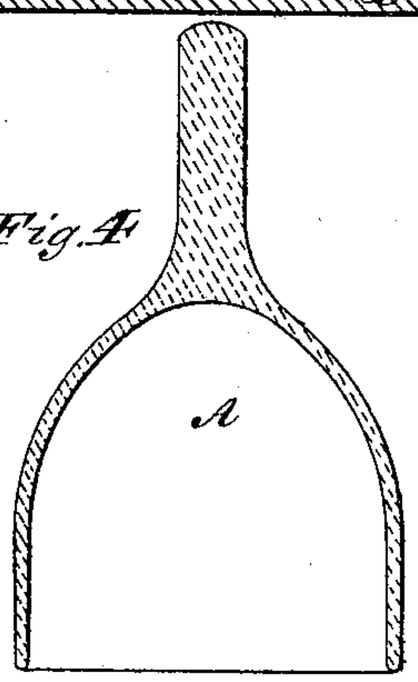


Fig. 3.

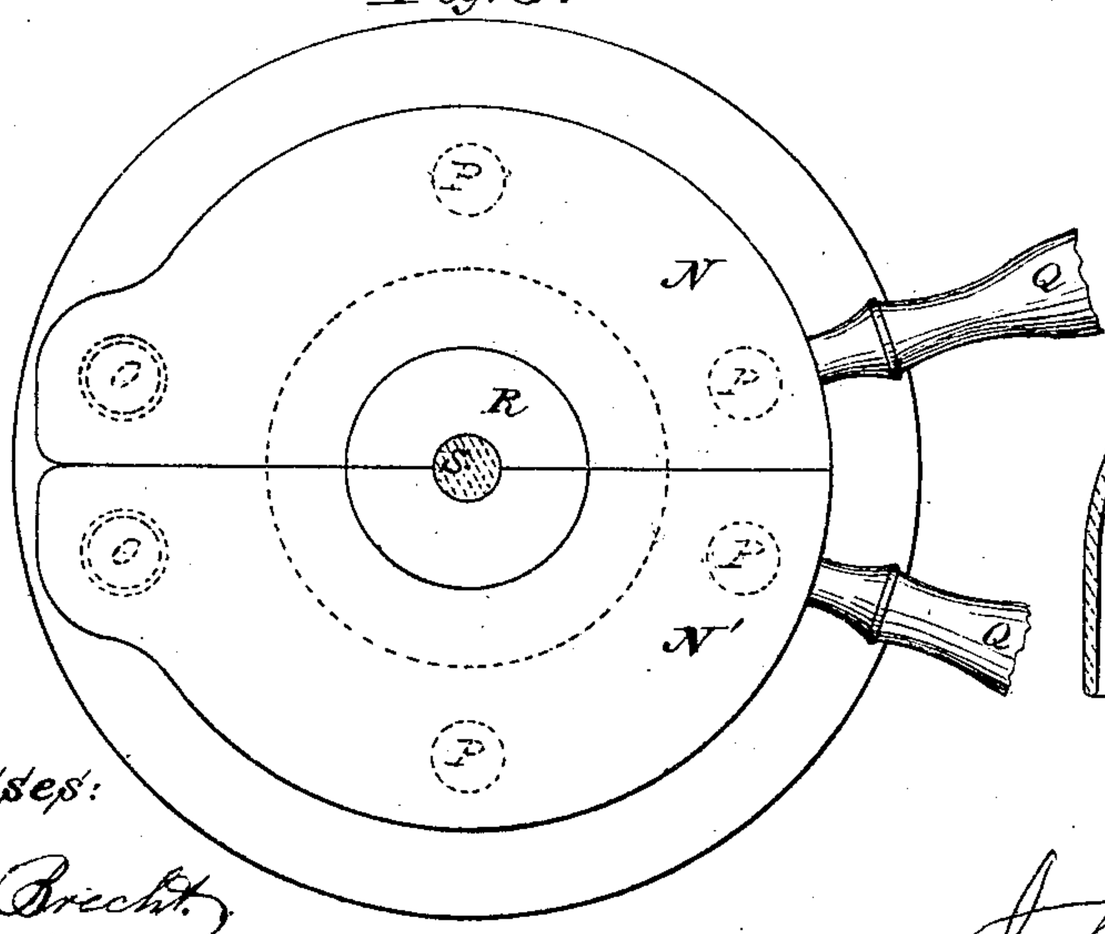
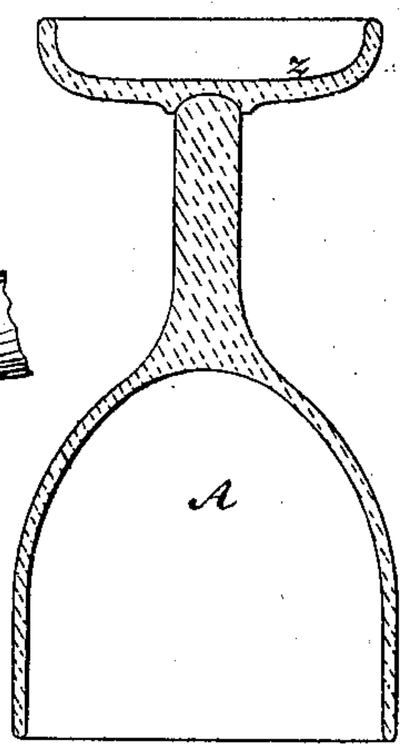


Fig. 5.



Witnesses:

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D. C. Allen

Inventor:

John Oesterling

2 Sheets--Sheet 2.

J. OESTERLING.

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Fig. 6.

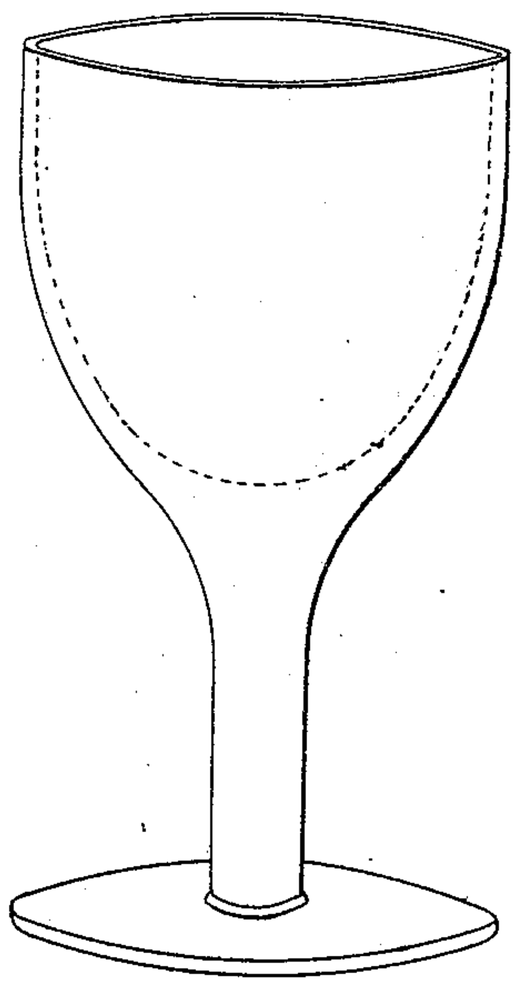


Fig. 7.

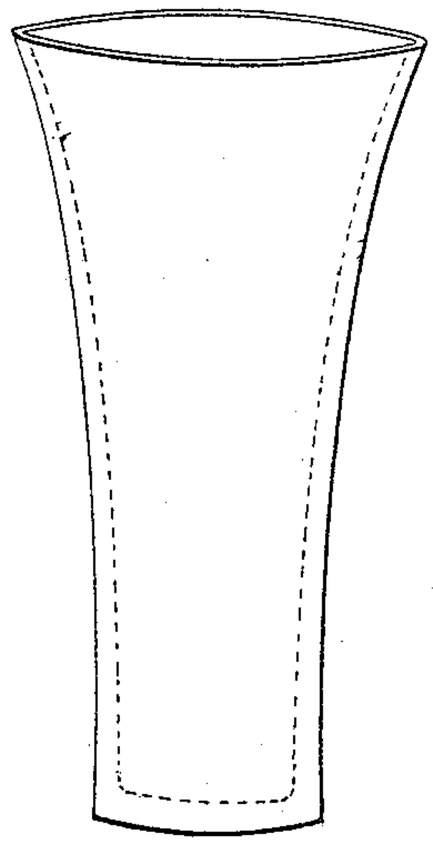


Fig. 7.

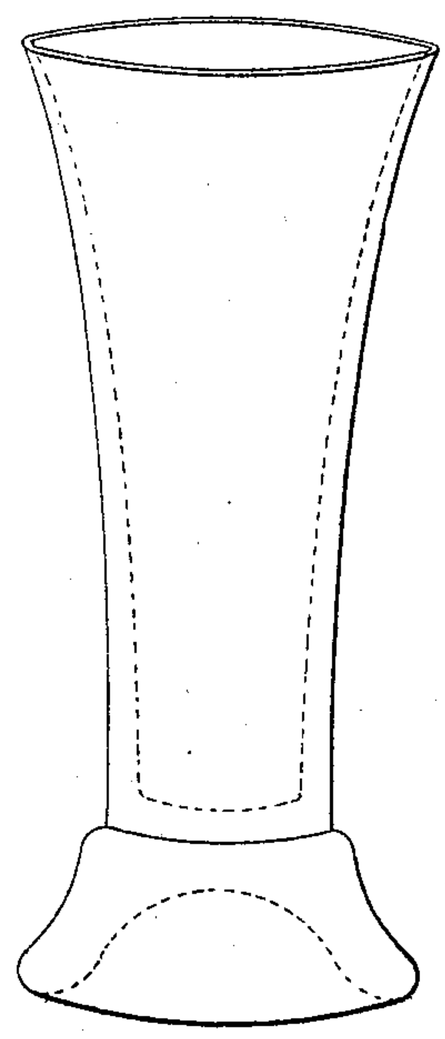


Fig. 8.

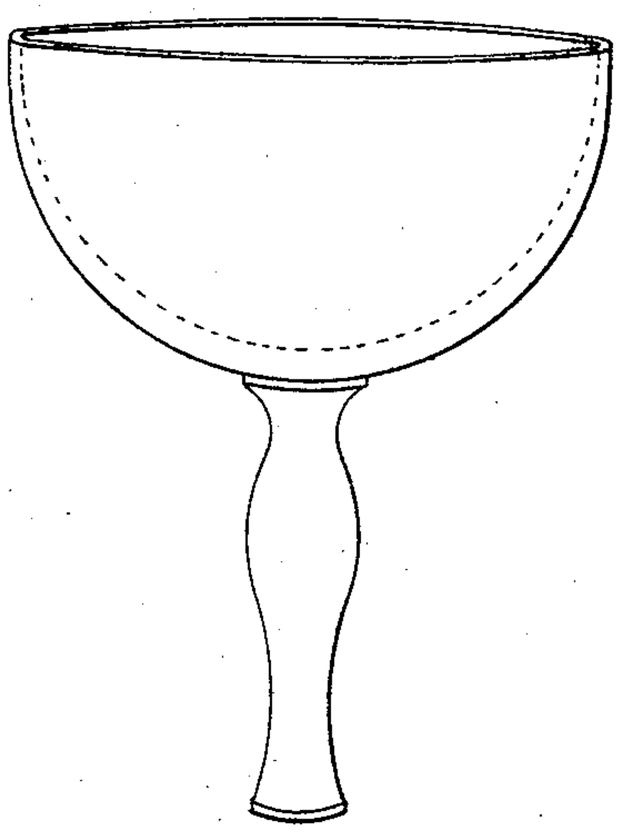
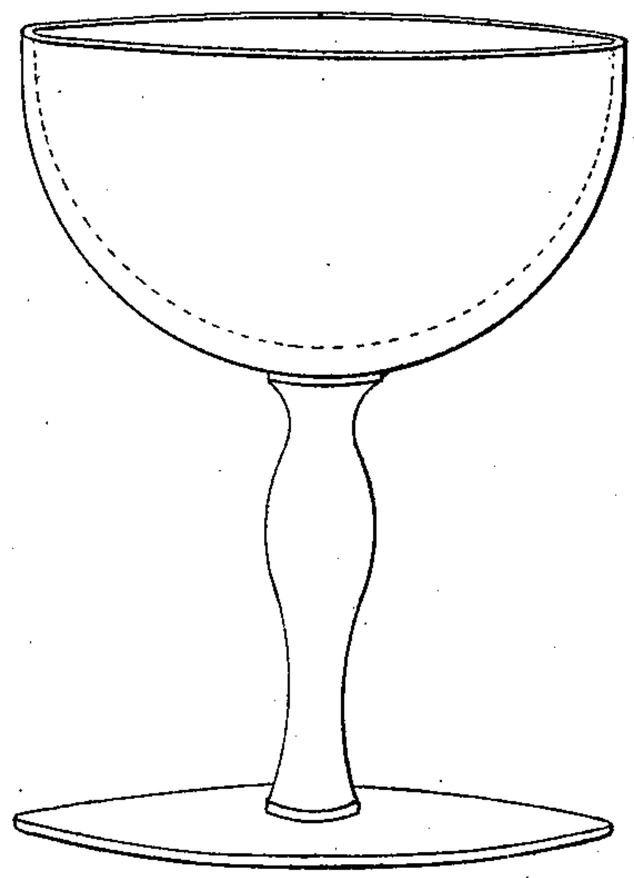


Fig. 8.



Witnesses:

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D. C. Allen

Inventor:

John Oesterling

UNITED STATES PATENT OFFICE.

JOHN OESTERLING, OF WHEELING, WEST VIRGINIA.

IMPROVEMENT IN THE MANUFACTURE OF STEMMED GLASSWARE.

Specification forming part of Letters Patent No. **132,216,** dated October 15, 1872.

To all whom it may concern:

Be it known that I, JOHN OESTERLING, of Wheeling, in the county of Ohio and State of West Virginia, have invented a new and original method of Manufacturing Pressed-Footed Tumblers and Stemmed or Legged Glassware, by which the same can be made without mold-joint demarkations so as to resemble blown glassware, which, as ordinarily made, is very expensive, because requiring workmen of great skill to produce ware of uniform size and appearance; and I do hereby declare that the following is a full, clear, and exact description of the same, and the mechanism for producing it, reference being made to the annexed drawing making a part of this specification, in which—

Figure 1 represents a sectional view of the bowl and stem-mold and plunger; Fig. 2, a sectional view of the foot-mold and supporting-frame; Fig. 3, a top view of the same; Fig. 4 shows the stemmed bowl as it leaves the mold; Fig. 5 shows the same with the foot pressed on before finishing; Fig. 6 shows the finished product; and Figs. 7 and 8 show champagne and weiss-beer glasses, before and after finishing, made by my method.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and working.

The stemmed bowl A, as shown in Fig. 4, is pressed in a jointless mold, Fig. 1, in which B represents the plunger; C, the plunger-ring; D, the solid mold; F F, its handles; and G, the loose bottom. H shows the molten glass pressed between the plunger and mold. The mold is then lifted off the loose bottom G and turned over to deliver the stemmed bowl, which is then taken and reheated to undergo the fire-polish, and when yet in a very hot state is carried and deposited on the supporting-frame at I. The supporting-frame and foot-mold are constructed as follows: K is the base-plate of the supporting-frame. J is a circular recess cut therein to receive the spring-plate I, held by a counter-screw, L, to the central projection M of the base-plate. The spring-plate I is composed, preferably, of a circular piece of metal cut from an ordinary carpenter's saw, and fits the recess J loosely. Its office is to form an elastic bearing-surface for the stemmed bowl, while the foot is being pressed onto the latter to prevent its cracking or other injury. N N′ is the sectional supporting-plate, each section pivoted to a rod, O, their front ends supported by legs P, which slide and rest on the base-plate, and are opened and closed by handles Q. On the center of the supporting-plates is the divided dovetail R, with a hole, S, passing through its center and that of the supporting-plate for receiving the end of the stem of the partially-formed glass, as seen at *x*, Fig. 2. T T′ represent the sections of the foot-mold with cavities *a* for clasping the dovetail R, as usual; U, its handles; V, its hinge-lugs, two being on one section of the mold and one on the other, through which passes the pivot W. X is the plunger, and Y the plunger-ring. Z represents the molten glass for forming the foot pressed onto the stem between the plunger and mold.

This completes the operation: On now opening the sections of the foot-mold and supporting-plate, the glass, as represented in Fig. 5, can be readily removed. The glass is now finished by reheating the foot and flaring it out into the usual disk-shape, shown in Fig. 6. The pressure for forming and uniting the foot to the base is necessarily so light as to produce no mold-joint ridges or seams upon the foot.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the foot-mold, supporting-plate, recessed base-plate, and spring-plate I, all as and for the purpose described.

2. The process herein described for making pressed stemmed-footed ware having no mold-joint demarkations, so as to resemble blown ware, to wit: by first pressing the stemmed bowl in a solid mold; then reheating and fire-polishing it; then, while yet very hot, pressing thereon the foot in another mold; and then reheating and finishing the foot, all as set forth.

In testimony thereof I have hereunto subscribed my name in the presence of two witnesses.

JOHN OESTERLING.

Witnesses:

A. P. HALL,

GEORGE SWIFT.