

(No Model.)

H. DIETRICH.

TOOL FOR FINISHING HOLLOW GLASSWARE.

No. 285,345.

Patented Sept. 18, 1883.

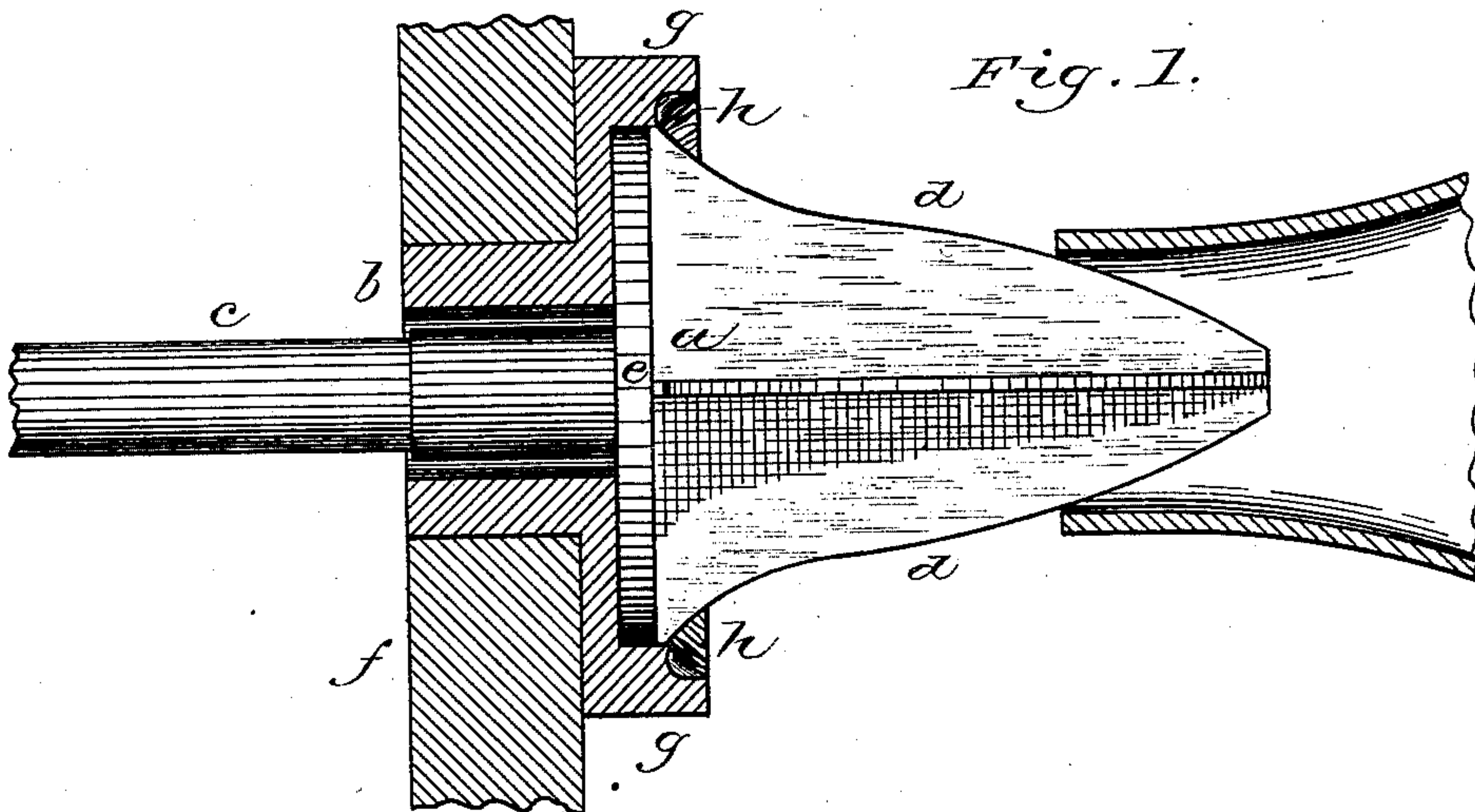


Fig. 1.

Fig. 2.

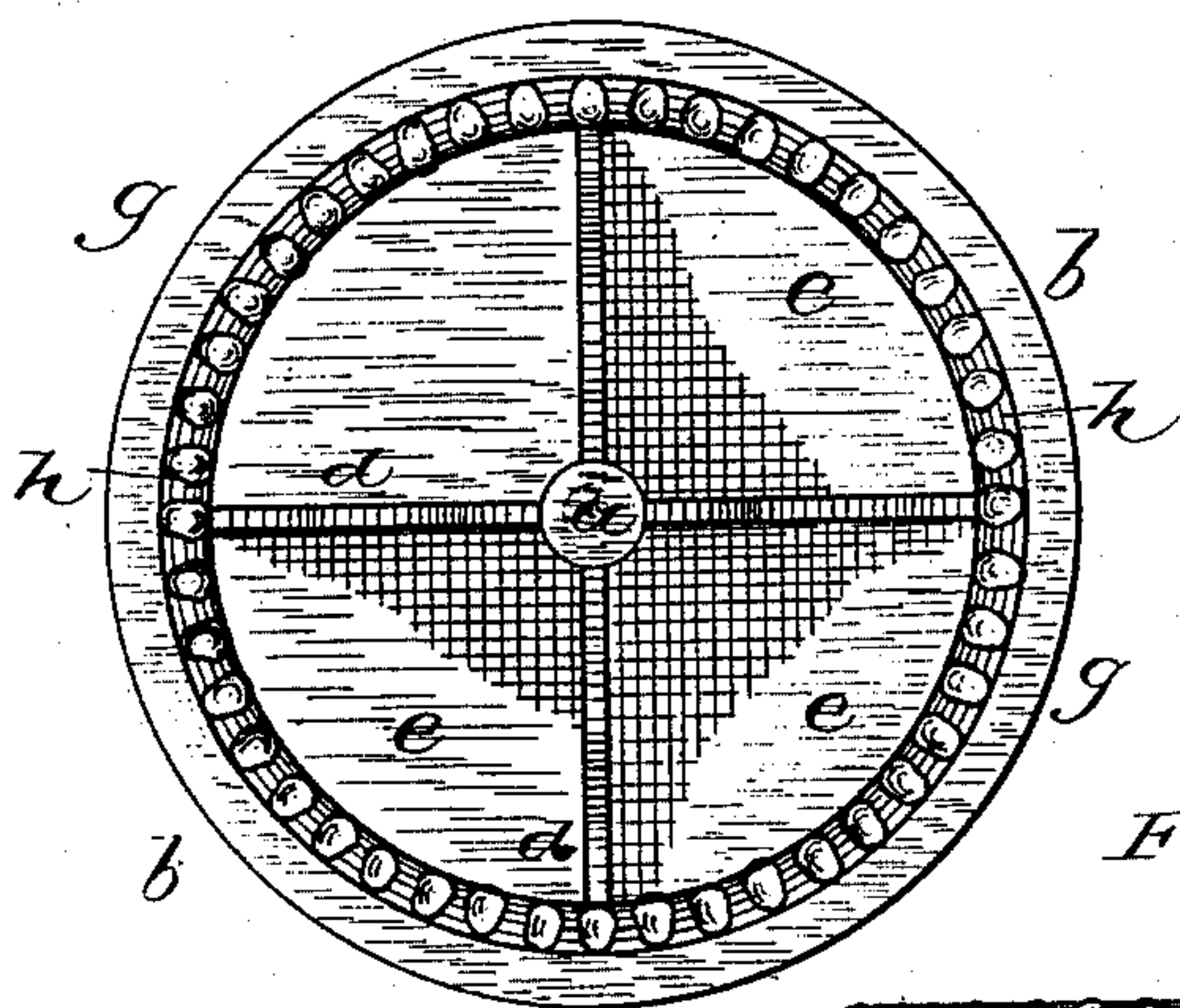


Fig. 3.

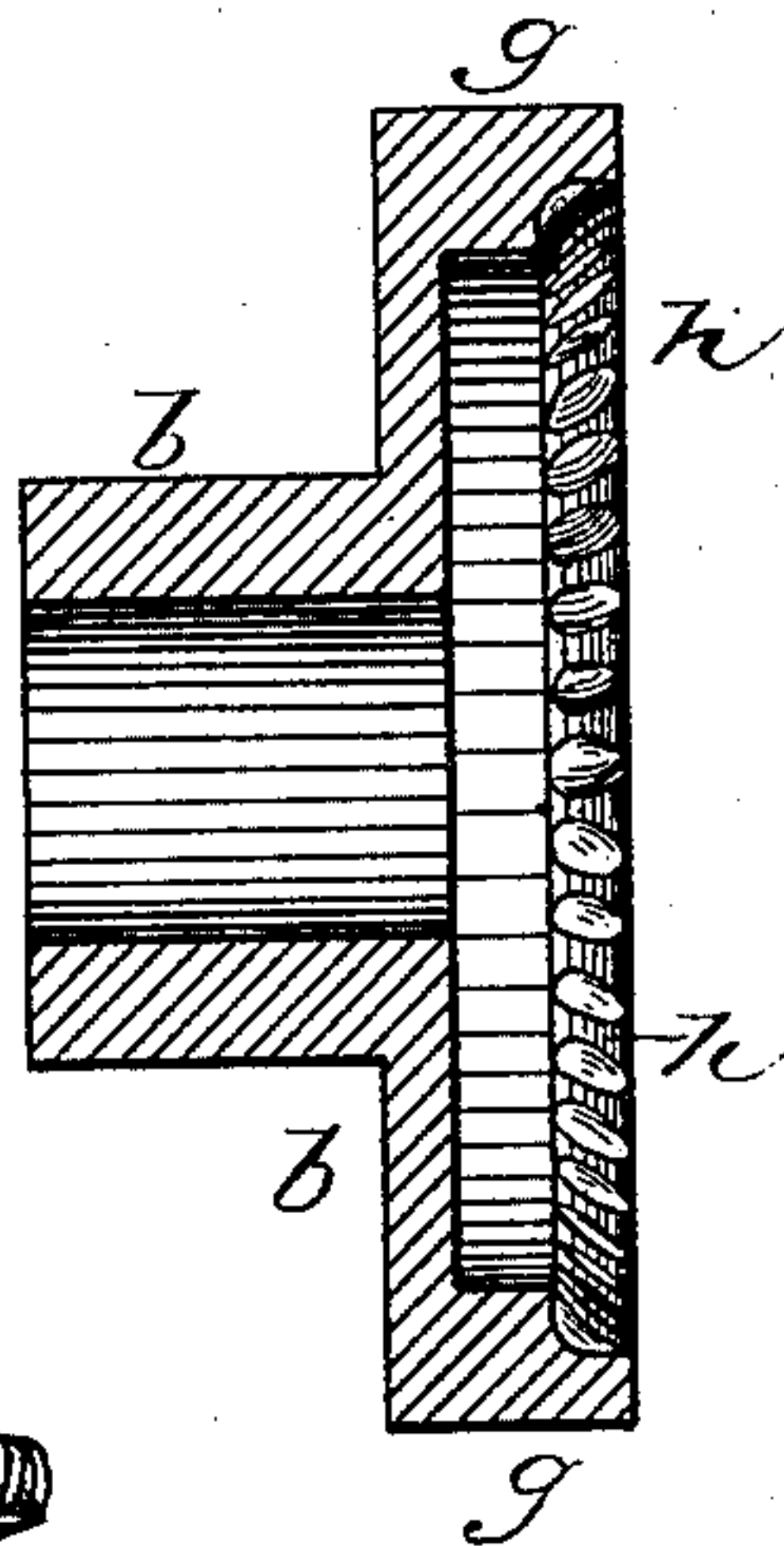
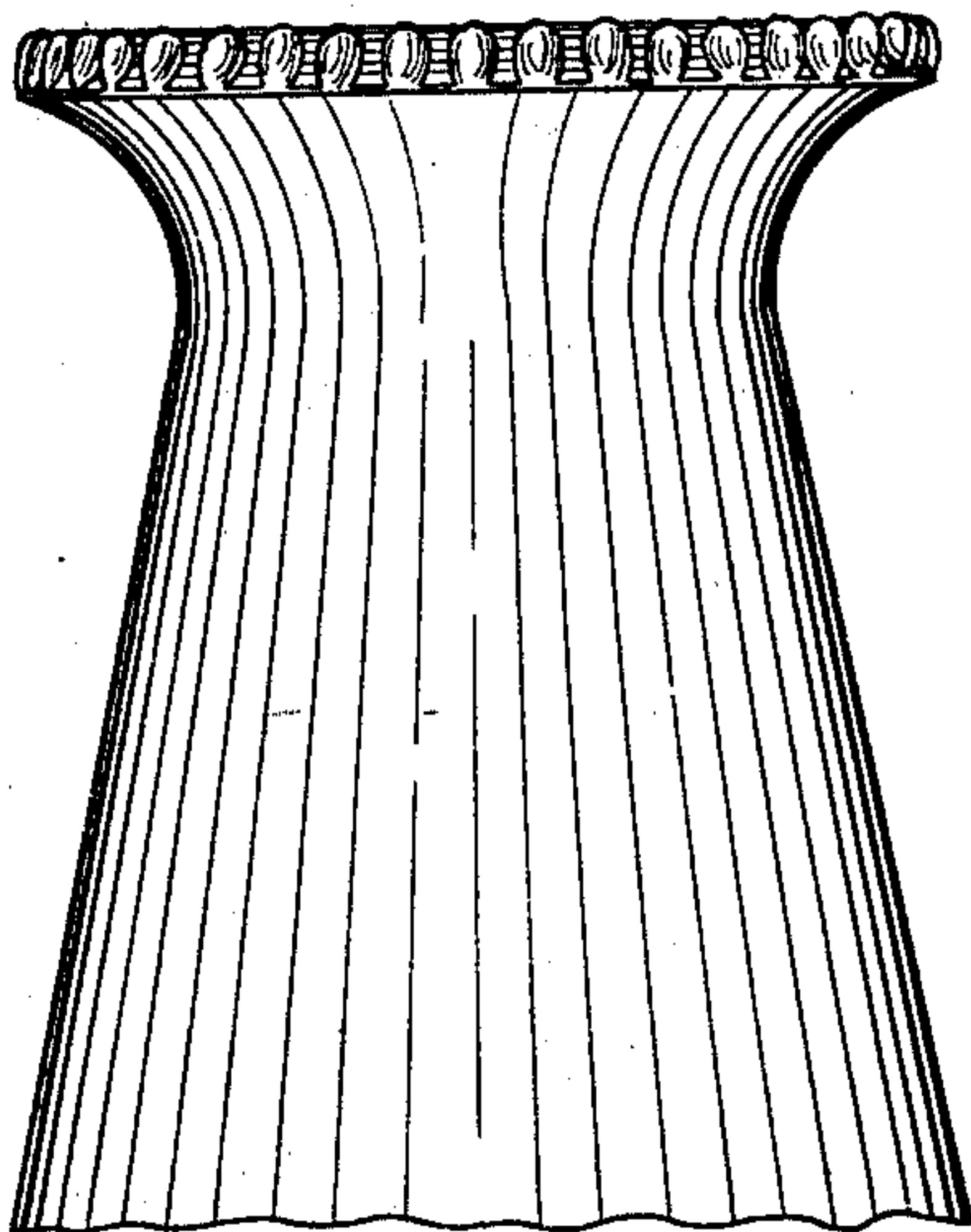


Fig. 4.



Witnesses.

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HENRY DIETRICH, OF PITTSBURG, ASSIGNOR TO GEORGE A. MACBETH, OF ALLEGHENY, PENNSYLVANIA.

TOOL FOR FINISHING HOLLOW GLASSWARE.

SPECIFICATION forming part of Letters Patent No. 285,345, dated September 18, 1883.

Application filed August 29, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY DIETRICH, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Tools for Finishing Hollow Glassware; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to the finishing and ornamentation of the tops or upper ends of lamp-chimneys and similar hollow glassware, its object being to provide a rapid and certain means for imparting a neat finish or ornamentation to the edge of the lamp-chimney or other article, and at the same time hold the article in the proper shape.

It consists, essentially, in combining with a flaring-tool an annular mold fitting around the flaring-tool, at the base thereof, and having the pattern for a series of beads or similar ornamental design thereon, so that the chimney or other article may be first flared or opened by pressing it over the flaring-tool, and upon being pressed against the mold the beading or other ornamentation will be imparted to the edge of the chimney, the chimney being at the same time held in proper shape and the edge brought to true circular form by the flaring-tool and mold.

To enable others skilled in the art to make and use my invention, I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is a longitudinal central section of my improved finishing-tool. Fig. 2 is a face view thereof. Fig. 3 is a section of the mold, and Fig. 4 is a side view of the upper end of a lamp-chimney finished thereby.

Like letters of reference indicate like parts in each.

In the drawings, *a* represents the flaring-tool, and *b* the mold-block in which the annular mold *h* for finishing the edge of the chimney is formed. Either the flaring-tool or mold-block is arranged to revolve, so that during the finishing operation the flaring-tool is revolving within the chimney or the chimney around the flaring-tool, the mold-block moving with the chimney, one or the other being necessary, so that the flaring-tool, after opening the mouth of the chimney, will support it

when the edge is pressed into the annular mold. The former construction is preferred, and is illustrated in the drawings.

The tool *a* is mounted on a shaft, *c*, which passes through the mold, and is rotated by suitable apparatus. (Not shown.) The tool is formed of two or more blades, *d*, meeting at the point and extending back, with a proper curvature to cause the flaring or opening of the lamp-chimney or other article pressed over it. The blades are supported at the base of the tool by the disk *e*, and this disk fits into and rotates within a suitable seat in the mold-block *b*. The mold-block is supported in a suitable frame, *f*, and it has the annular ring *g*, extending beyond the base of the blades *d* of the flaring-tool. The inner edge of this ring is beveled off at the desired angle for the edge of the chimney, being generally at about right angles to the edge of the blades at the base, and this portion forms the annular mold *h* around the flaring-tool, against or within which the edge of the chimney is pressed to impart to it a true circular form. In this annular mold *h* is formed the pattern for the ornamentation which is to be given to the edge of the chimney.

The pattern shown in the drawings is for a series of globular beads, and it extends entirely around the annular mold. This pattern may of course be varied at the pleasure of the manufacturer, the beading being pointed, angular, or prismatic, or the pattern for other ornamentation, suitable to extend around the circular edge of the chimney, being formed therein.

In finishing chimneys by my improved tool the chimney, after having been blown and brought to the proper shape for opening and finishing, is heated and pressed over the rotating flaring-tool *a*, and the blades *d* open out the mouth or top and turn it back to the desired curve or angle. As the chimney is pressed farther up the tool its edge comes against the annular mold *h* around the flaring-tool, and by means of this mold a proper circular or even edge is imparted to the chimney-top, and at the same time, by means of the pattern in the mold, the beading or other desired ornamentation is formed around and above the edge of the chimney, and a very neat and

prettily-finished chimney-top obtained. After the flaring of the chimney-top the rotating flaring-tool serves to support the chimney and to prevent its being pressed out of shape
5 during the finishing and ornamenting of the edge.

What I claim as my invention, and desire to obtain by Letters Patent, is—

10 In tools for finishing chimneys and other hollow glassware, the combination, with a flaring-tool, of a mold-block fitting around said

tool, and having an annular mold to impart to the edge a circular form and form a beading or other ornamentation on said edge, substantially as set forth.

In testimony whereof I, the said HENRY DIETRICH, have hereunto set my hand.

HENRY DIETRICH.

Witnesses:

JAMES I. KAY,
J. N. COOKE.