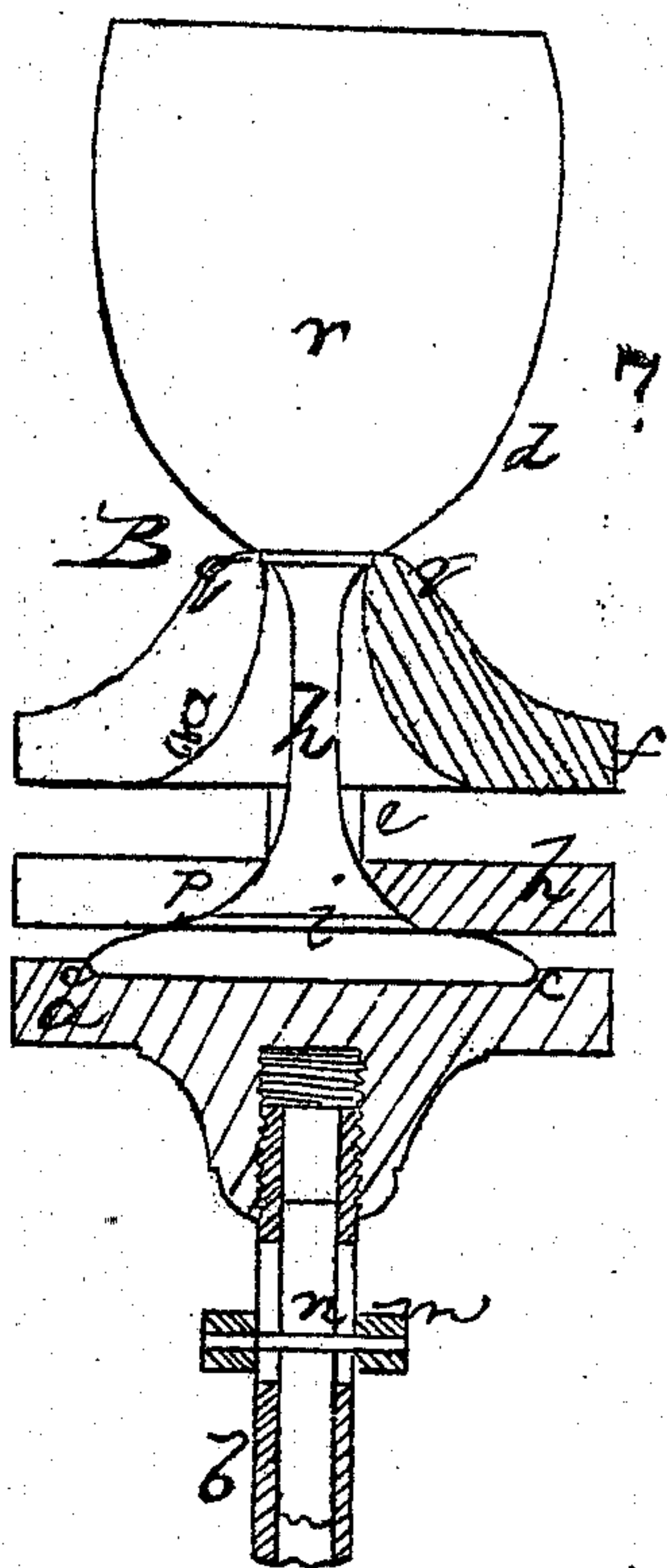
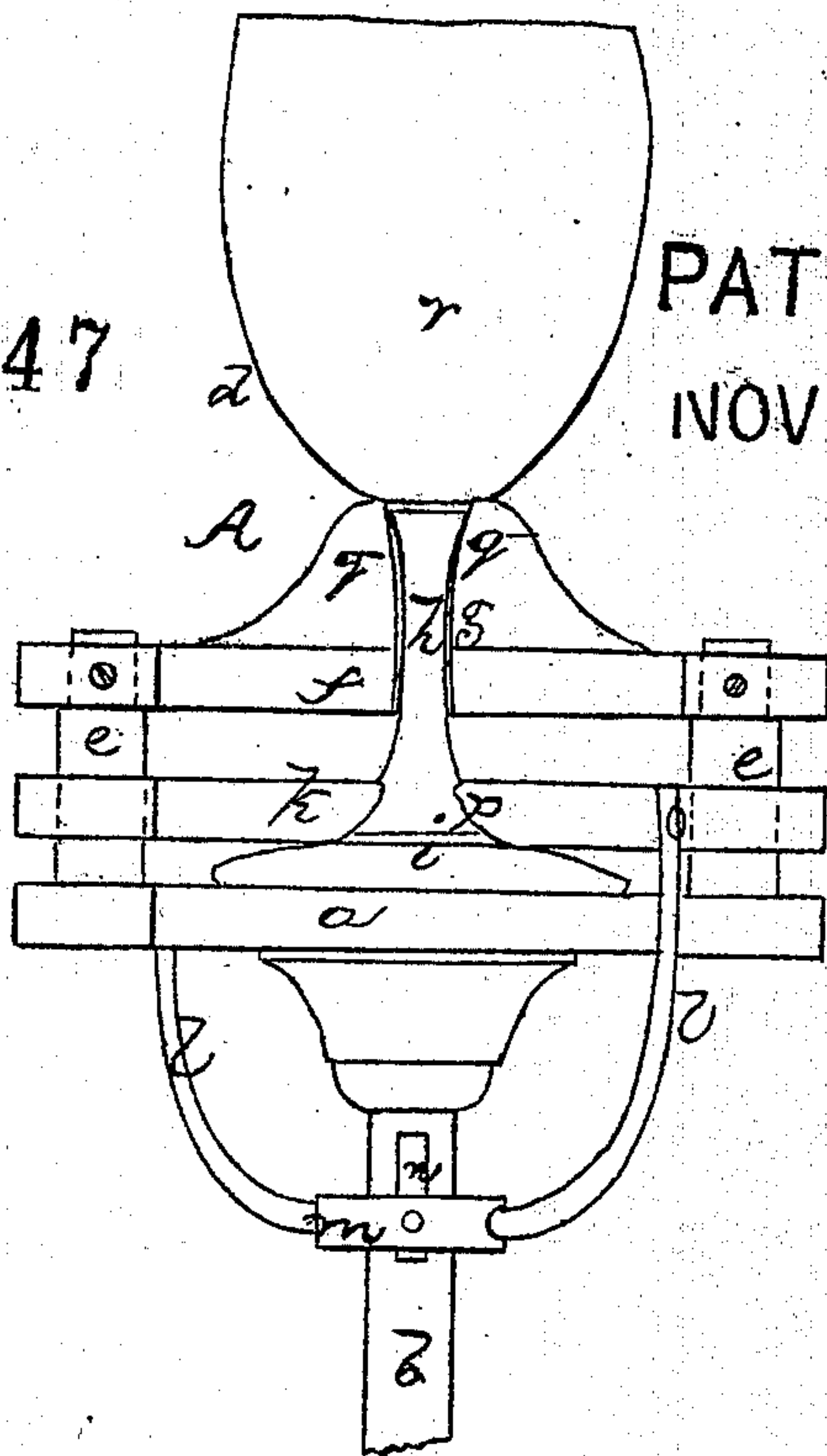


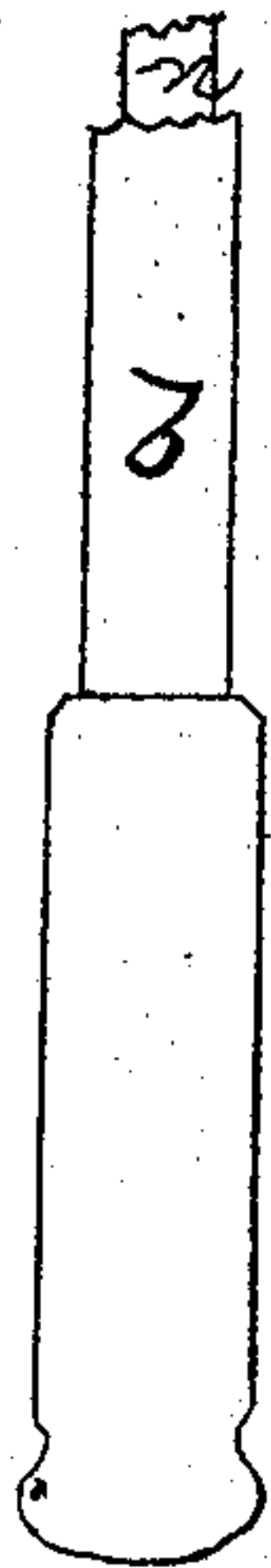
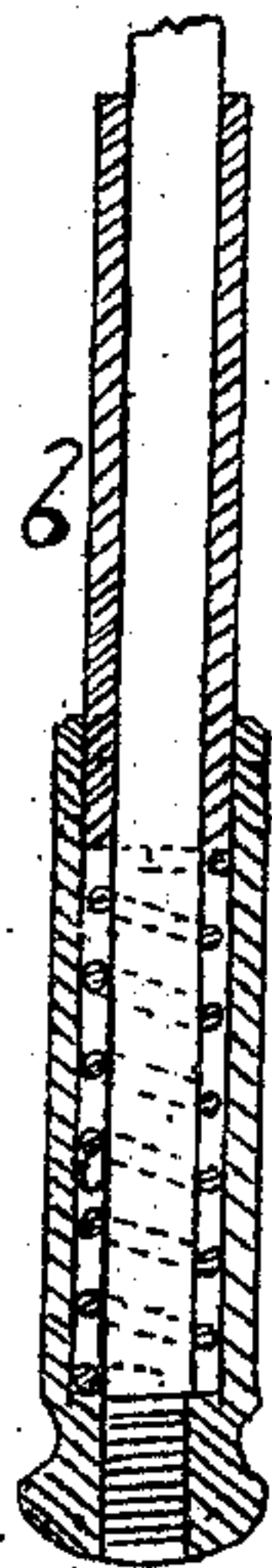
Owen D. Brigham's
 Imp'd "Snap" for Glass Ware Makers.



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PATENTED
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Witnesses,
 U. B. Tucker
 M. W. Frothingham

Owen D. Brigham
 by Crosby, H. Abbot & Gould
 Attys.

United States Patent Office.

OWEN B. BRIGHAM, OF CAMBRIDGE, ASSIGNOR TO YOUNG, HAINES,
AND DYER, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 71,447, dated November 26, 1867.

IMPROVED SNAP FOR GLASS-WARE MAKERS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, OWEN B. BRIGHAM, of Cambridge, in the county of Middlesex, and State of Massachusetts, have invented an Improved Snap for Glass-Ware Makers; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practise it.

In the manufacture of goblets and other similar articles of glass-ware, it is customary for the workman to hold the goblet (in finishing the bowl) in an instrument called a "snap," or "snap-dragon," composed of two clamping-disks held normally together by a spring, one disk being slit to its centre, for the introduction of the leg or stem of the bowl, and the other having a handle by which it is drawn away from the first, the base of the goblet being slipped between the disks (when separated) by passing the leg into the opening in the outer disk, the spring then closing the disks upon the base, and holding the goblet firmly with the bowl, and the stem or leg projecting out beyond the instrument in convenient position for finishing the bowl. A description of such an instrument may be found in United States Letters Patent, No. 17,960.

My invention relates to certain improvements in the construction of these "snaps" or goblet and other glass-ware holders, the object of my improvements being to provide for the more secure and steady holding of the article than is afforded by such holders as are now in common use.

In my construction I employ an auxiliary disk, making the disk or plate against which the base of the goblet is supported and the outer disk or plate both stationary, and placing a movable clamping-disk between these, this clamp-plate being drawn towards the lower one by a suitable spring.

It is in this arrangement, and in the peculiar construction of the outer disk or plate in such manner that the bowl of the goblet is directly supported thereby, that my invention consists.

The drawings represent a glass-ware "snap" embodying my invention, A showing an elevation, and B a central section of the same.

a denotes a disk or bed-plate, fixed upon the end of a rod, *b*, and having its outer surface preferably made with a circular recess or bed, *c*, for centring a goblet or other article, *d*, to be held in the snap. On opposite sides of this bed-plate *a* are pillars *e*, upon which is fixed and supported another disk or plate, *f*, the two plates *a* and *f* being relatively stationary. The plate *f* has a radial opening, *g*, extending from one side to its centre, to permit insertion of the stem or leg *h* of the goblet in introducing the base *i* into the snap. Between the plates *a* and *f* is a movable or clamping-disk or plate, *k*, which slides on the pillars *e*, and is supported on arms *l*, projecting from a hub or ring, *m*, fixed to a stem, *n*, running through the rod *b*; a spring, *o*, serving to draw the clamp-plate *k* down towards the bed-plate *a*, as will be readily understood. The clamp-plate has a radial opening, *p*, (to receive the goblet-leg *h*), in line with the opening *g*.

In placing a goblet in the snap, the plate *k* is pushed away from the bed-plate *a*, the base *i* is then carried in between the plates *a* and *k*, (the leg *h* passing through the slots or openings *g* and *p*), and the goblet is then held stationary (with respect to the disks *a* and *f*) for the plate *k* to spring down and clamp the base *i* to the bed-plate.

It will be observed that by this arrangement the goblet is first positioned in the snap, and is not then moved in grasping it by the clamp, the leg being thereby more securely protected, and being less liable to break.

For the better support of the leg, and the bottom part of the bowl *r* of the goblet, I make the upper plate *f* with a neck, *q*, which extends up to the bowl, the base of the bowl resting directly upon its top, as seen in the drawings, the length of the goblet-foot and leg, from the bottom of the bowl to the under surface of the base *i*, corresponding to the distance from the upper surface of the bed-plate to the top of the neck *q*. With a snap so made, a goblet can be much more safely and freely handled in finishing it, and far fewer will be broken than in employing those in common use.

I claim, in combination with the fixed plates *a* and *f*, the clamp-plate *k*, so constructed and arranged that the base of the goblet is clamped down against the bed-plate, substantially as described.

Also, in combination with the plate *f*, the neck *r*, for directly supporting the goblet-bowl, substantially as set forth.

OWEN B. BRIGHAM.

Witnesses:

FRANCIS GOULD,

C. WARREN BROWN.