B. BAKEWELL, Jr.

MOLDS FOR PRESSED GLASSWARE.

No. 175,006. Patented March 21, 1876.

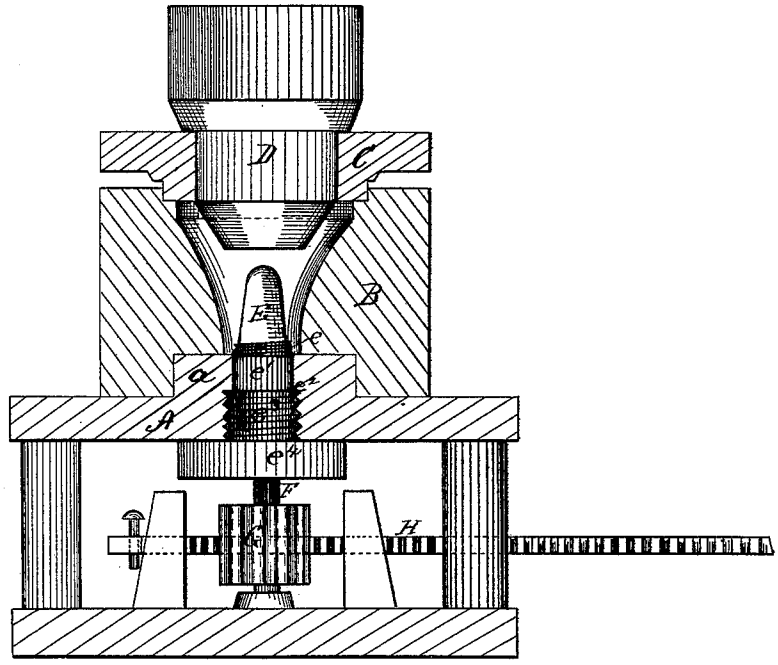


Fig. 1.

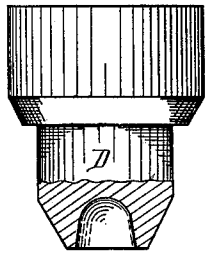


Fig. 2.

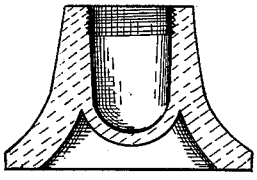

Fig. 3.

Witnesses.

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# UNITED STATES PATENT OFFICE

BENJAMIN BAKEWELL, JR., OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN MOLDS FOR PRESSED GLASSWARE.

Specification forming part of Letters Patent No. **175,006**, dated March 21, 1876; application filed January 28, 1876.

*To all whom it may concern:*

Be it known that I, BENJAMIN BAKEWELL, Jr., of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Molds for Pressed Glassware; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a view of the mold partly in section. Fig. 2 is a view of the plunger, and Fig. 3 a section of a pressed glass article.

Like letters refer to like parts wherever they occur.

My invention relates to molds for the manufacture of pressed glassware; and consists in combining with the bottom plate of a press-mold a peg provided with a thread which engages with the threaded opening of the bottom plate, thus guiding and centering the peg, and insuring the regular and even withdrawal of the same.

I will now proceed to describe my invention so that others skilled in the art to which it appertains may make and use the same.

A represents the bottom plate, provided with a raised portion, *a*, over which fits the mold B, which, in the present instance, is a drop-mold. C is the ordinary ring, and D a plunger, which, like the mold, is adapted to the article to be produced, all of which may be of any approved form.

E is the bottom peg, provided with a forming-thread, *e*, which projects above the bottom plate A when the peg is raised to its highest position, and below the upper thread *e* is a smooth section or even surface, $e^1$, which fits closely the collar formed by the projecting portion *a* of the bottom plate. The diameter of peg E below the plain portion $e^1$ is increased so as to form a shoulder, $e^2$, which works against the under side of *a*, and acts as a stop. A supplemental thread, $e^3$, is formed upon the enlarged portion of the peg, and a corresponding thread is tapped in the central opening of the bottom-plate, care being taken to give the supplemental thread $e^3$ the same pitch as the thread *e*, when the latter is employed, so that the article formed will not be distorted in drawing the peg. The peg may be provided with a base collar or disk, $e^4$, and terminates in a shaft, F, provided with a pinion, G, which gears with a rack, H, or equivalent device, for rotating the peg.

The operation of these devices is as follows: The several parts of the mold being in place, and the peg B in its highest position, the article is pressed in the usual manner; the shaft is then rotated to withdraw the peg, which is steadied and centered by the threaded portion passing through the bottom plate, and as the screw acts on the principle of the wedge, the peg will be withdrawn by a positive power which, from its location, guards against any lateral play of the peg or distortion of the article of glassware formed in the mold.

The advantages of the construction specified are, first, that all lateral play of the peg is avoided; secondly, a positive and regular power is made use of to withdraw the peg from the article; and finally, where the pitch of the threads *e* and $e^3$ are the same, all liability of distorting the thread formed in the pressed article is counteracted.

I am aware that a vertically-movable mold section-threaded on the projecting portion and withdrawn by rotation has been used in conjunction with the supporting-frame of a mold for blown ware, and distinctly disclaim such a device or devices; but,

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

1. In molds for the manufacture of pressed glassware, the combination of the threaded bottom plate, the peg provided with a thread, which engages with the thread in the bottom-plate, and suitable means for withdrawing the peg, substantially as specified.

2. In molds for the manufacture of pressed glassware, the combination of the threaded bottom plate, provided with ring *a*, the peg provided with a plain portion, $e^1$, and a threaded portion of greater diameter than the plain portion, and suitable means for withdrawing the peg, substantially as specified.

3. In molds for the manufacture of pressed

glassware, the combination of the threaded bottom plate, the peg provided with a forming-thread, and a supplemental or withdrawing thread of equal pitch, and suitable means for rotating the peg, substantially as and for the purpose specified.

In testimony whereof I, the said BENJAMIN BAKEWELL, Jr., have hereunto set my hand.

BENJAMIN BAKEWELL, JR.

Witnesses:
F. W. RITTER, Jr.,
JAMES I. KAY.