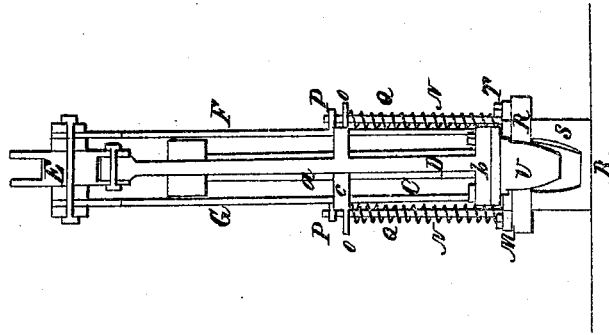
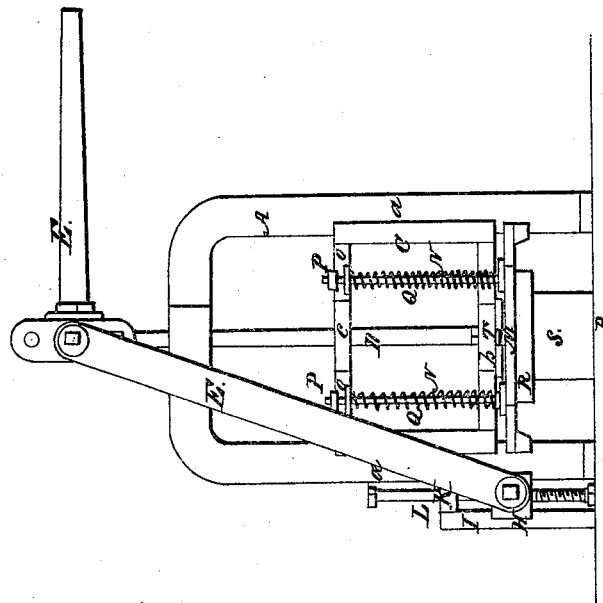


*J. Magoun,*  
*Glass Press.*  
*N<sup>o</sup> 4,297.      Patented Dec, 6, 1845.*

*Fig. 2.*



*Fig. 1.*



# UNITED STATES PATENT OFFICE.

JOSEPH MAGOAN, OF EAST CAMBRIDGE, MASSACHUSETTS.

## IMPROVEMENT IN PRESSING GLASS IN MOLDS.

Specification forming part of Letters Patent No. 4,297, dated December 6, 1845.

*To all whom it may concern:*

Be it known that I, JOSEPH MAGOAN, of East Cambridge, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Presses used for Pressing Glass in Molds; and I do hereby declare that the nature of my invention and the manner in which it operates are fully set forth and represented in the following specification, accompanying drawings, letters, figures, and references thereof.

Of the aforementioned drawings, Figure 1 denotes a front elevation, and Fig. 2 a transverse section, of my improved press.

A, Figs. 1 and 2, represents the frame or arch of the press, which projects upward from a bed or table, B. Within the frame A there is another frame, C, arranged so as to slide or move freely up and down between and be supported and guided by the upright cheeks or posts *a a* of the frame or arch A. From the bottom bar, *b*, of the said frame C a rod, D, extends upward through the top bar, *c*, and plays or moves freely through the top or central part of the arch A, the said rod being jointed to a T-lever, E, as seen in the drawings. The said T-lever is jointed, at a point of it above where it is connected to the rod D, to inclined bars F G, both of which extend downward therefrom, the one—viz., F—on the front and the other—viz., G—on the rear side of the frame A, both being connected or jointed at their lower ends to a block or frame, H, sustained between the side of the post *a* and another short post, I, which rises upward from the bed-plate B, and is connected to the frame A by a cap-piece, K. The said block H has a screw-rod, L, extending downward through it and the cap-piece and into or upon the bed-plate, and adapted to them in such manner as, when turned horizontally in one direction or the other, to elevate or depress the block, and of course the frame C. The said frame C has a horizontal plate, M, suspended beneath it by four rods, N N N N, each of which passes and slides freely up and down through one of four ears, O O, &c., which project from the top bar of the frame C. Each of the said rods has a nut, P, screwed upon its top or upper end for the purpose of sup-

porting the plate M in position. It also has one of four helical springs, Q Q, &c., placed upon it or wound around it and extending from the ear O downward and resting upon the plate M. The plate M extends from post to post of the frame A and is properly guided by the same.

From the above it will be observed that when the frame C is elevated by bringing the handle of the T-lever into a vertical position the plate M will rise or be carried upward with the frame C.

The plate M is intended to carry the cap-piece R of the lower part, S, of a mold, which cap-piece is connected to its under side by any suitable number of screws, one of which is seen at T. The plunger U of the mold is screwed or otherwise properly attached to the under side of the lower part of the frame C and works through the cap-piece and into the lower part of the mold.

By my improvement the press can be readily adapted to any mold generally used, the said improvement consisting in combining with the frame C a plate, M, to which any cap-piece of any mold such as is commonly used can be attached. I also make the frame C and its toggle-joints (T-lever and bars F G) and rest-block H to be adjustable, or be moved up and down, so as to apply them (generally speaking) to any mold, or part thereof, whatever may be their height.

Heretofore it has been necessary to have a press or a series of springs and rods applied to each mold used; but now I am enabled to make use of but one press and one series of springs and rods for a great number of molds, thus saving much expense.

When the press is used, the workman, after supplying the mold with the necessary quantity of metal, takes hold of the T-lever and turns it down into or toward a horizontal position. By so doing he causes the frame C and the plate M to descend toward the lower part of the mold and brings the cap-piece down upon the said lower part, and the plunger into it.

Having thus explained my invention, I shall claim—

1. The plate M, as combined with the slid-

ing frame C, for the purpose of receiving the cap-plate of any mold of various molds, as described.

2. The making the whole frame C, plate M, toggles, (T-lever and bars F G,) and rest-block of the toggles adjustable with respect to the mold or bed-plate upon which it is placed, in the manner as above described.

In testimony whereof I have hereto set my signature this 18th day of July, A. D. 1845.

JOSEPH MAGOAN.

Witnesses:

R. H. EDDY,  
CALEB EDDY.