

HENRY J. LEASURE. Glass Press.

No. 124,364.

Patented March 5, 1872.

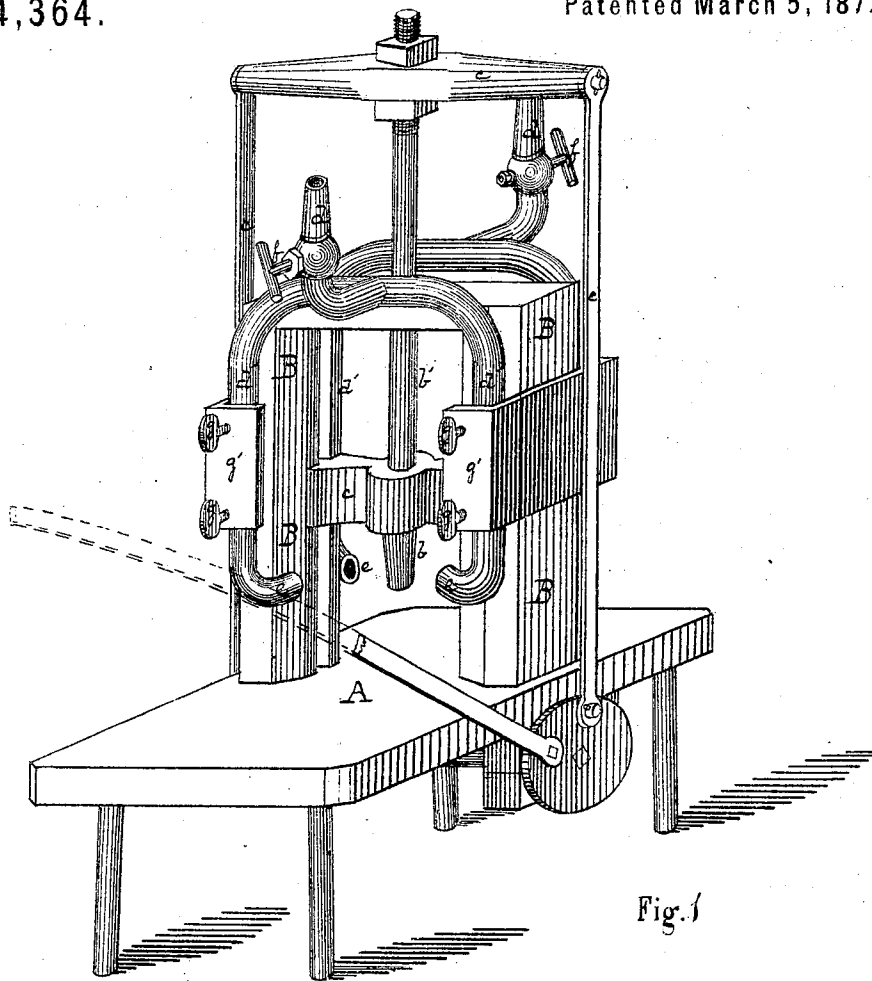


Fig. 1

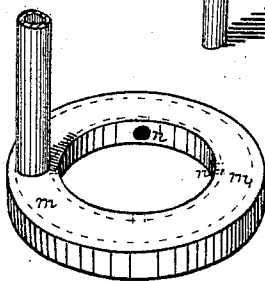


Fig. 3.

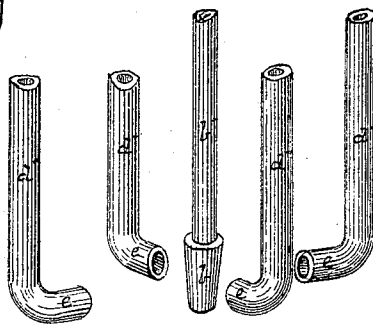


Fig. 2.

WITNESSES

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INVENTOR: *Henry J. Leasure,*
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UNITED STATES PATENT OFFICE.

HENRY J. LEASURE, OF WHEELING, WEST VIRGINIA.

IMPROVEMENT IN GLASS-PRESSES.

Specification forming part of Letters Patent No. 124,364, dated March 5, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, HENRY J. LEASURE, of Wheeling, in the county of Ohio and State of West Virginia, have invented a new and useful Improvement in Glass-Presses; and I do hereby declare the following to be a full, clear, and exact description thereof:

In the operation of glass-presses, a difficulty has been experienced from the overheating of molds and plungers, particularly the latter. To remedy this a removable pipe or hose has been carried from an air-receiver to the press, so as to play a jet of cold air onto the mold or plunger. With such apparatus as heretofore commonly constructed it has been found troublesome and inconvenient to detach and re-attach the air-pipe when presses are changed or moved, (which is done at least once in every six hours,) and it also has been found practicable to cool only one side of the plunger at once. I have improved the apparatus and further perfected the process by combining with the frame of the glass-press an arrangement of cooling-pipes adjustably attached thereto, two or more in number, with their discharge-openings opposite to each other, and directed toward the plunger, mold, or other part to be cooled. Each press then carries its own arrangement of cooling-pipes, with which a connection can readily be made from the air-blower, pump, or reservoir; and the plunger or mold, as the case may be, is kept at a temperature uniform in all its parts.

To enable others skilled in the art to make and use my improvement, I will proceed to describe its construction and operation referring for that purpose to the accompanying drawing making a part of this specification, in which—

Figure 1 is a perspective view of a portion of an ordinary glass-press, with my improved arrangement of cooling-pipes adjustably attached thereto; and Fig. 2 shows, in perspective, the relative arrangement of the pipe-openings and plunger; and Fig. 3 illustrates a modified arrangement of the blow-pipes.

Like letters of reference indicate like parts in each.

A and B indicate the mold-plate and frame-

work of an ordinary glass-press. The plunger *b* is attached to the stem *b'*, and is operated up and down by the usual sliding frame *c*. The pipes *d d'* fitted at their upper ends with suitable unions or couplings for making connection with the pipe which leads from the air-reservoir or air-compressing apparatus, are suitably arranged on the upper part of the frame, and, branching from there, a leg, *d'*, extends down each post B to a point about opposite to that at which the air is to be applied, and there it bends inward, as at *e*, so that its open end or discharging orifice shall come opposite to the position of the plunger *b* when up, that being its position when it can be most advantageously cooled. A single pipe may take the place of the two pipes *d d'*, in which case it should branch above the highest point part of the sliding frame at the highest point of its stroke, into two or more legs or branches, which, descending on the opposite sides of the posts B, should have their air-outlet openings inward, and as near as practicable opposite to each other. An annular pipe, *m*, with suitable apertures, *n*, may take the place of the curved ends *e*. Also, there may be a pipe, *d*, for each leg *d'*, but this would be less convenient in use. Each pipe *d* is preferably provided with a cock, *f*, by which the force of the blasts can be regulated at pleasure. A larger volume of air is required with some molds and plungers than with others.

The system of pipes thus described I make adjustable up and down on the posts B by means of set-screws *g* operating through any suitable clamp device, *g'*; though keys or wedges, or other device of like function may be substituted therefor. By this means I am enabled in every case to bring the blast openings to such position that they will play directly onto any desired part of the plunger *b*, and on as many of the opposite sides of it as there are blast-pipes.

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

1. In combination with a glass-press, a system of blow-pipes, two or more in number, attached to the frame or non-moving part of the press as a permanent part thereof, and having air discharge-openings opposite to each

other and opposite to the plunger or other part which is to be cooled, substantially as described.

2. The system of pipes described, adjustably attached to the frame-work or other non-moving part of a glass-press, so as to bring the air discharge-openings opposite to the part to be cooled, substantially as described.

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

HENRY J. LEASURE.

Witnesses:

LAWRENCE HELLER,
JOHN W. SCHULTZ.