M. SWEENEY.

GLASS PRESSING MACHINE.

No. 79,786. Patented July 7, 1868.

Fig: 2.

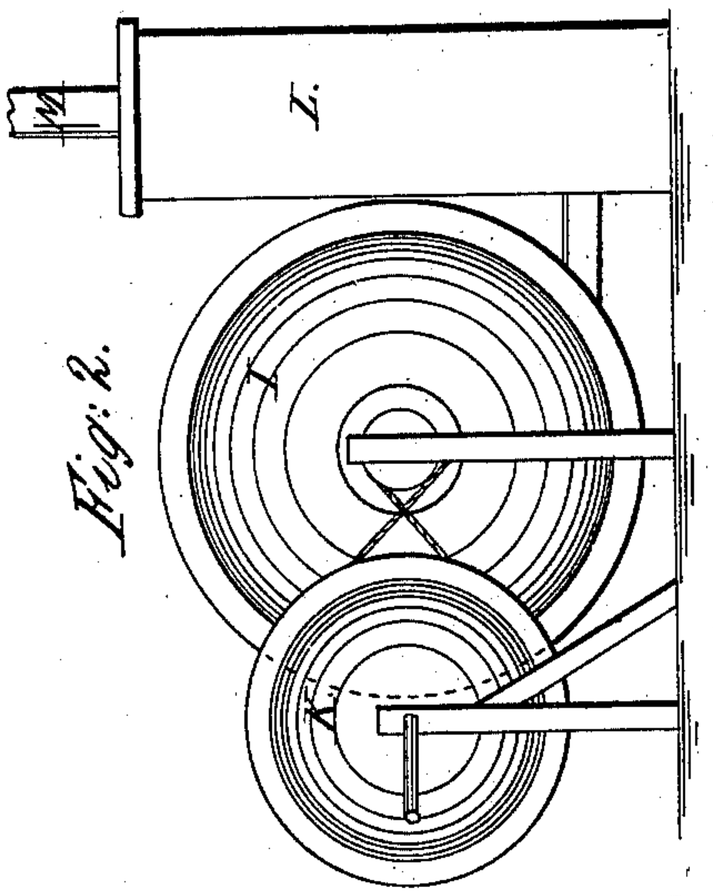
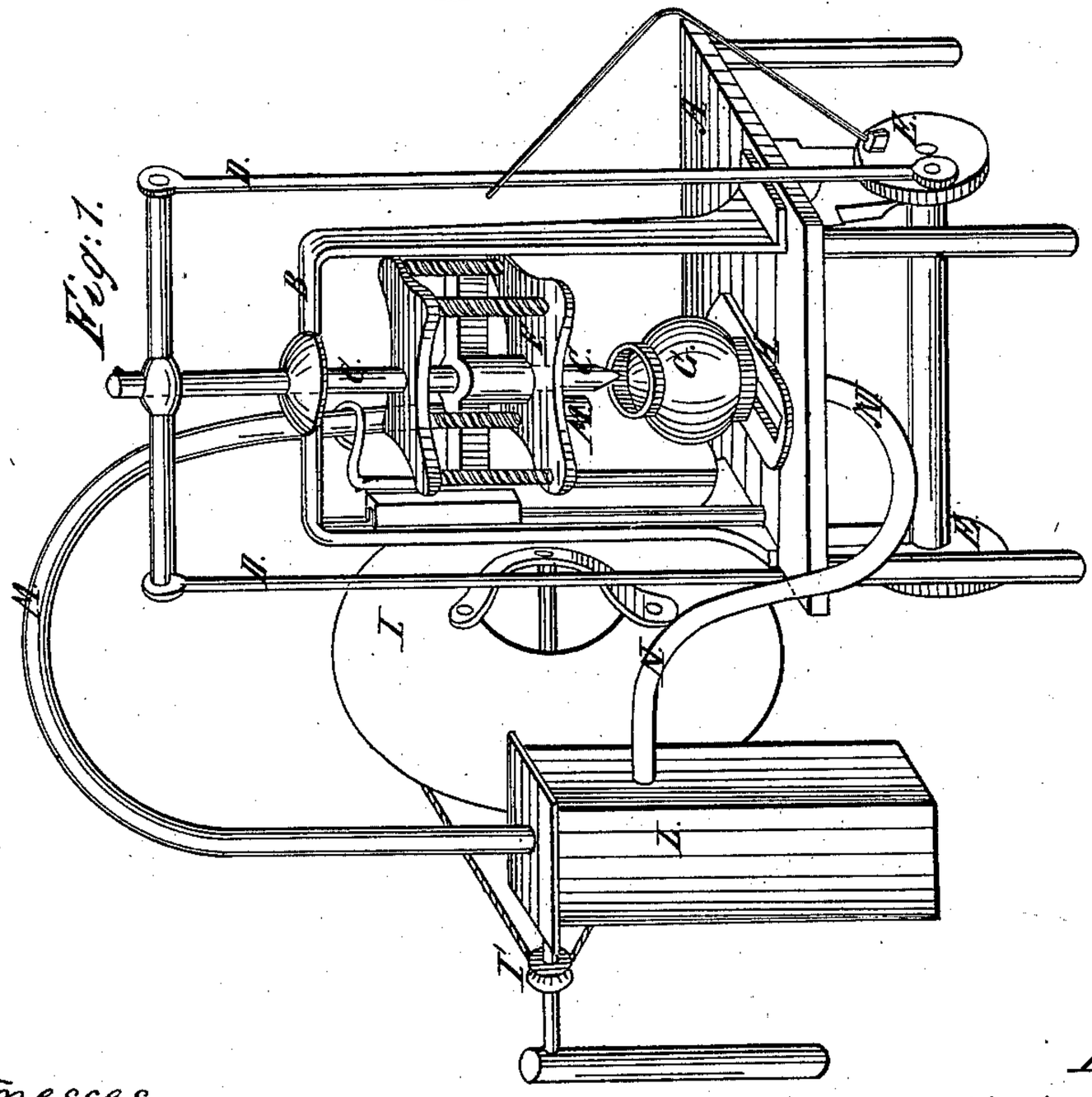


Fig: 1.



Witnesses.

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United States Patent Office.

MICHAEL SWEENEY, OF WHEELING, WEST VIRGINIA, ASSIGNOR TO SWEENEY, BELL, AND COMPANY, OF SAME PLACE.

Letters Patent No. 79,786. *dated July* 7, 1868.

IMPROVED GLASS-PRESSING MACHINE.

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, MICHAEL SWEENEY, of Wheeling, in the county of Ohio, and State of West Virginia, have invented a new and useful Improvement in Machines for Moulding and Pressing Glass; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view, and

Figure 2 is an elevation of the air-blast mechanism.

The ıe letters indicate identical parts in both the figures.

My invention consists in the application of currents of air directed by pipes leading from a fan, or other equivalent machine, to the plunger and surface of moulds used in glass-pressing machines, for the purpose of cooling the same.

In the manufacture of pressed glassware, great inconvenience is experienced from the heating of the mould and plunger, causing a scum or shell to form on the mould, which necessitates its cleansing after being used a few hours. It is also necessary to resort to the hammering process to deliver the glass, which soon injures the mould. To obviate these difficulties, I apply strong blasts of air to the plunger, and also to the surface of the moulds, thereby keeping them at a uniform temperature, preventing the formation of a shell, and effecting the easy delivery of the glass.

I have illustrated in the drawings one form of glass-pressing machine, and one arrangement of a pressure-blast. The same principle may be applied to other forms of presses, or by means of any other form of pressure-blast.

My invention does not consist in the mechanism, which is not new, but in the combination of a glass-ɔressing machine and a machine for producing blasts of air, said blasts being applied for the purpose herein ɜet forth.

In the annexed drawings, A is the bed, upon which the press and mould are placed; B is the frame of the press, and C the plunger, which is forced into the mould by means of the rods, D D, attached to the cross-head and actuated by the eccentrics E. These eccentrics are turned by a lever in the ordinary manner. F is a head, through which the plunger passes, which has an elastic bearing against springs. This elastic head forms the top of the article in the mould. G is a mould, such as is used in pressing glass. It slides on the bed A. I is a fan, for creating a blast of air. It may be driven by a belt passing around the pulley K and the whirl I′ on the fan-shaft. The wind from the fan is driven into the receiver L, from which it is conducted by means of two tubes, M and N. The tube M is so placed as to discharge its blast directly on or into the mould G when drawn from under the press. The tube N leads under the table, opening upward immediately under the plunger, so as to direct the blast therefrom against the latter.

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

1. The combination of a machine for pressing glass and a pressure-blast, the tubes leading from which are so arranged that cold-air currents, generated by the blast, shall be directed against the surfaces of the pressing-mechanism, substantially as and for the purpose set forth.

2. So arranging the pipes M and N, leading from the pressure-blast I, as to direct the currents of air to the mould G, and against the plunger C, substantially in the manner set forth.

In witness whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

MICHAEL SWEENEY.

Witnesses:

S. P. HILDRETH,

JAS. P. WILKINSON.