

D. LONG.

Pipe-Molding Machines.

No. 133,652.

Patented Dec. 3, 1872.

Fig. 1.

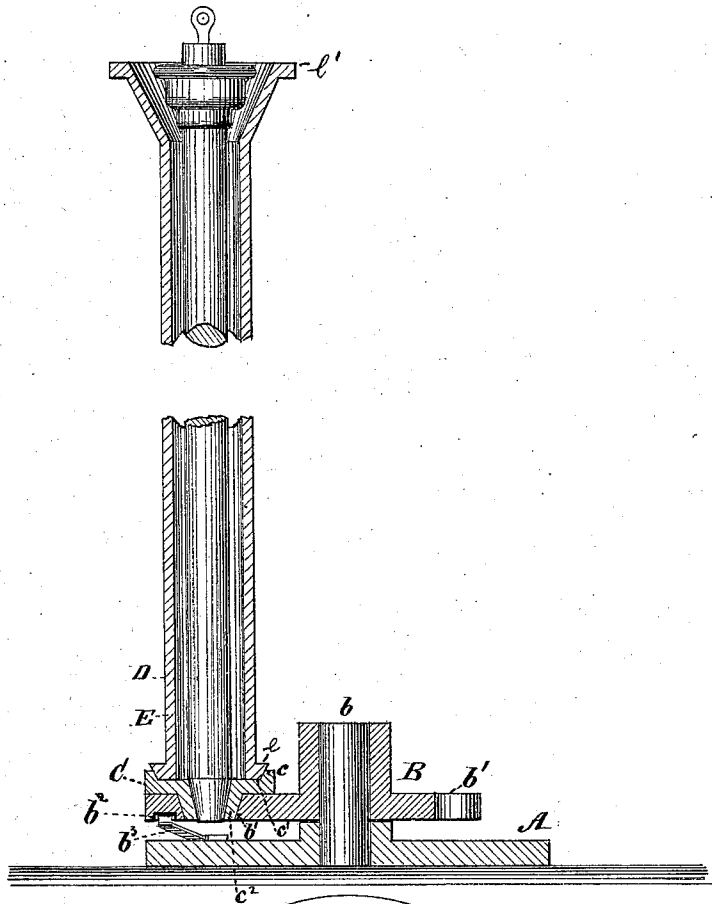
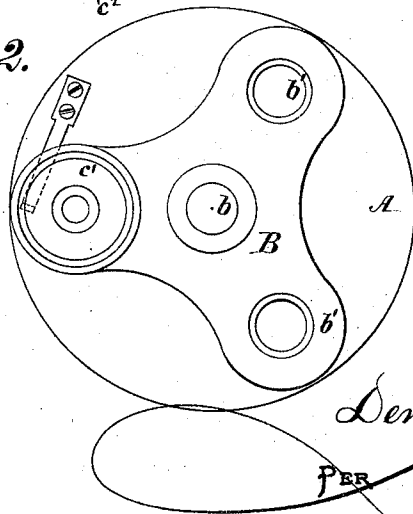


Fig. 2.



Witnesses:
G. Watkins
John C. Kemou

Inventor:
Dennis Long
PER *Wm. T. C.*
Attorneys.

UNITED STATES PATENT OFFICE.

DENIS LONG, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN PIPE-MOLDING MACHINES.

Specification forming part of Letters Patent No. **133,652**, dated December 3, 1872.

To all whom it may concern:

Be it known that I, DENIS LONG, of Louisville, in the county of Jefferson and State of Kentucky, have invented certain Improvements in Pipe-Molding Machines, of which the following is a specification:

The invention relates to pipe-molding machines generally, but particularly to that patented by H. Parmelee, September 4, 1860; and consists in the application thereto of a movable table resting on a foundation-plate, and provided with one or more seats for the flasks and pattern; in the peculiar form of the patterns; and in the construction of movable seats to adapt them to receive the end of pattern and of flask.

In the drawing, Figure 1 is a vertical and sectional elevation; Fig. 2, a top view with pattern and flask removed; and Fig. 3 is a section of one of the seats.

A represents a base or foundation plate of ramming-machine, which is placed within a pit to save time in removing flask to drying-oven. B is a table that rotates on a stud, *b*, of base-plate, that is provided with two or more sockets, *b*¹, to receive seats C, and that has a notch, *b*², to receive a spring, *b*³. These seats consist of disks, centrally and taperingly apertured to receive the ends of patterns D, with an upward flange, *e*, to produce an en-

larged circular cavity, *c*¹, for the flasks E, and with a downward-tapering flange, *c*², to fit into sockets *b*¹ of table. The patterns D are tapered at the lower end to fit into the seats, and made of suitable length to give the uniform size of pipe that may be desired. These patterns are not only enlarged at the top, but also at the bottom, in order to enable a pressure to be exercised by it on the sides of mold during the act of withdrawal after the ramming has been completed. The flasks E are in two parts that are hinged together, have bottom flange *e*, and flaring top with flange *e*¹. F is the ordinary socket-head of flask, through which the pattern passes.

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

1. A table, B, having sockets *b*¹ rotating on a stud, *b*, of base-plate, as and for the purpose set forth.

2. A seat, C, constructed and adapted to fit table and receive flask and pattern, as set forth.

3. A pipe-pattern enlarged on ends and turned off over the intermediate space, as and for the purpose described.

Witnesses:

DENIS LONG.

SAMUEL A. MILLER,
ROBERT HUGHES.