

THOMAS J. BARRON.  
Improvement in Molds.

No. 114,905.

Patented May 16, 1871.

Fig. 1.

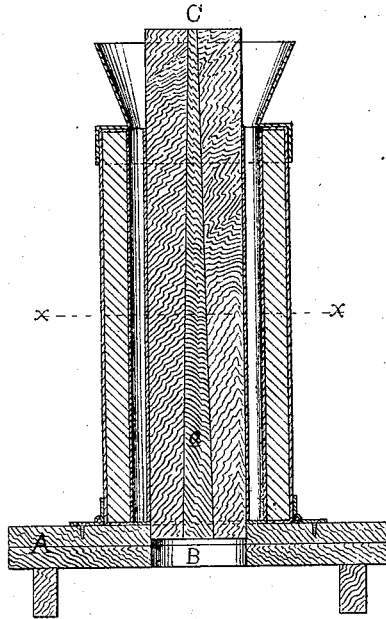
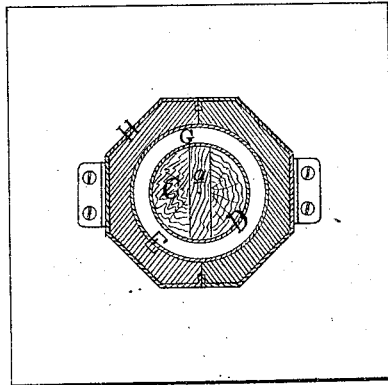


Fig. 2.



Witnesses.  
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Fig. 3.

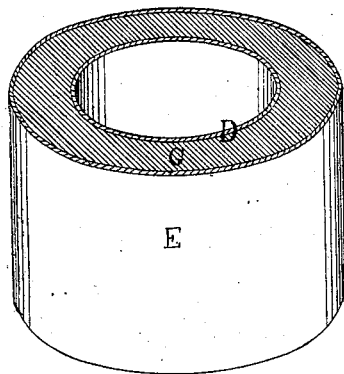


Fig. 4.

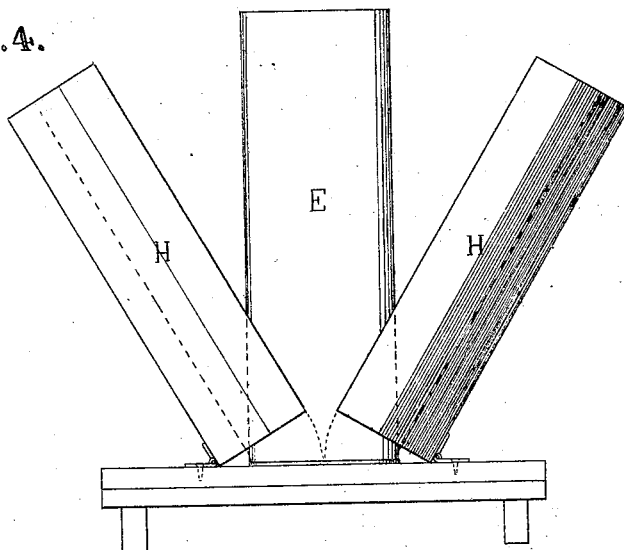
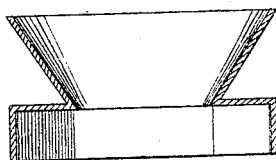


Fig. 5.



Witnesses.

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# UNITED STATES PATENT OFFICE.

THOMAS J. BARRON, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN MOLDS.

Specification forming part of Letters Patent No. **114,905**, dated May 16, 1871.

### *To all whom it may concern:*

Be it known that I, THOMAS J. BARRON, of Brooklyn, in the county of Kings and State of New York, have invented a new and valuable Improvement in Molds; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a vertical section of my molding apparatus. Fig. 2 is a horizontal section. Fig. 3 is a perspective view of the inner tubes with the concrete in place. Fig. 4 is an external view, showing the outer case opened; and Fig. 5 is a sectional view of the cap.

My invention relates to means for manufacturing water-pipes, blocks, ornamental slabs, &c., from concrete, clay, and other like materials; and consists in the construction of a new and improved mold for the purpose mentioned, as hereinafter particularly described.

The letter A of the drawing represents a solid platform, upon which my mold is used.

The letter B represents an opening through said platform, in which the bottom of the core is placed. This opening is adapted for use in molding pipes or tubes only.

The letter C represents the core of the mold. This is constructed in sections of two or more pieces, and has a wedge or wedges, *a*, adapted for being raised or lowered, as the case may require, in order to provide ready means for the removal of said core from the inner casing of the mold.

D represents the inner tube of my mold, which fits closely around the core when the wedge is driven home.

E represents the outer tube of the mold proper. It sits upon the platform outside the tube D, and the space between said tubes, marked G, is designed to hold the concrete or other material being molded.

The letter H represents an outer case or mold, which fits closely around the tube E. This mold H is constructed in two or more sections, each of which is hinged to the platform in the manner shown.

Whenever it is desirable to cast any trademark or ornamental work upon the pipe I usually make the necessary configuration upon the inside of the case H. I then insert the tube E and press it full of sand, concrete, or other suitable material, and continue the pressure until the configuration is transferred to said tube.

Of course the tube is constructed of suitable yielding material, to enable the operator to accomplish the result last above mentioned.

These several sections of the case H are adapted for being held together, when on duty, by suitable hooks or other fastenings.

I furthermore construct a cap of the form shown on Fig. 5 of the drawing. This cap serves to clasp over the upper ends of the sections of case H, and also is adapted to operate as a funnel to conduct the matter for molding to its destination in the space G.

My device is operated as follows, namely: The core is first placed in position, its lower end passing downward into or through the opening B of the platform. The tube D is next placed around the core, and both surrounded by the tube E. I next close the sections of case H and fasten them together by its hooks, after which I place the cap over the whole. When the mold is thus prepared I turn the concrete or other matter to be molded into the funnel of the cap, from which it passes into the space G and is molded. After the space G is filled I start the wedge *a* upward by a lever from beneath the platform, or by other suitable means, and permit the sections of the core to contract, after which it is removed. I next take the tubes D and E, with their molded contents, and place them in position for setting or drying said contents, or otherwise preparing said contents for future operations. The platform is thus cleared of the molded material and is ready to receive other tubes D and E, and the process of manufacture may be repeated without delay.

The wedge *a* may be loosened from its top as well as bottom, and it is not always necessary to remove the core from the platform before the tubes D and E are taken therefrom. In fact, I find it quite practicable to loosen the wedge, and then remove said tubes and their

contents, while permitting the core to remain in position.

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

1. In combination with the case H, the tubes D and E, arranged substantially as and for the purpose specified.

2. The sectional core C, with its wedge *a*, in

combination with the tubes D, E, and H, constructed and arranged to operate as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THOMAS J. BARRON.

Witnesses:

F. B. CURTIS,

JNO. M. HYNE.