

S. J. Peet.

Casting Molds.

N^o 100,319.

Patented Mar. 1, 1870.

Fig: 1.

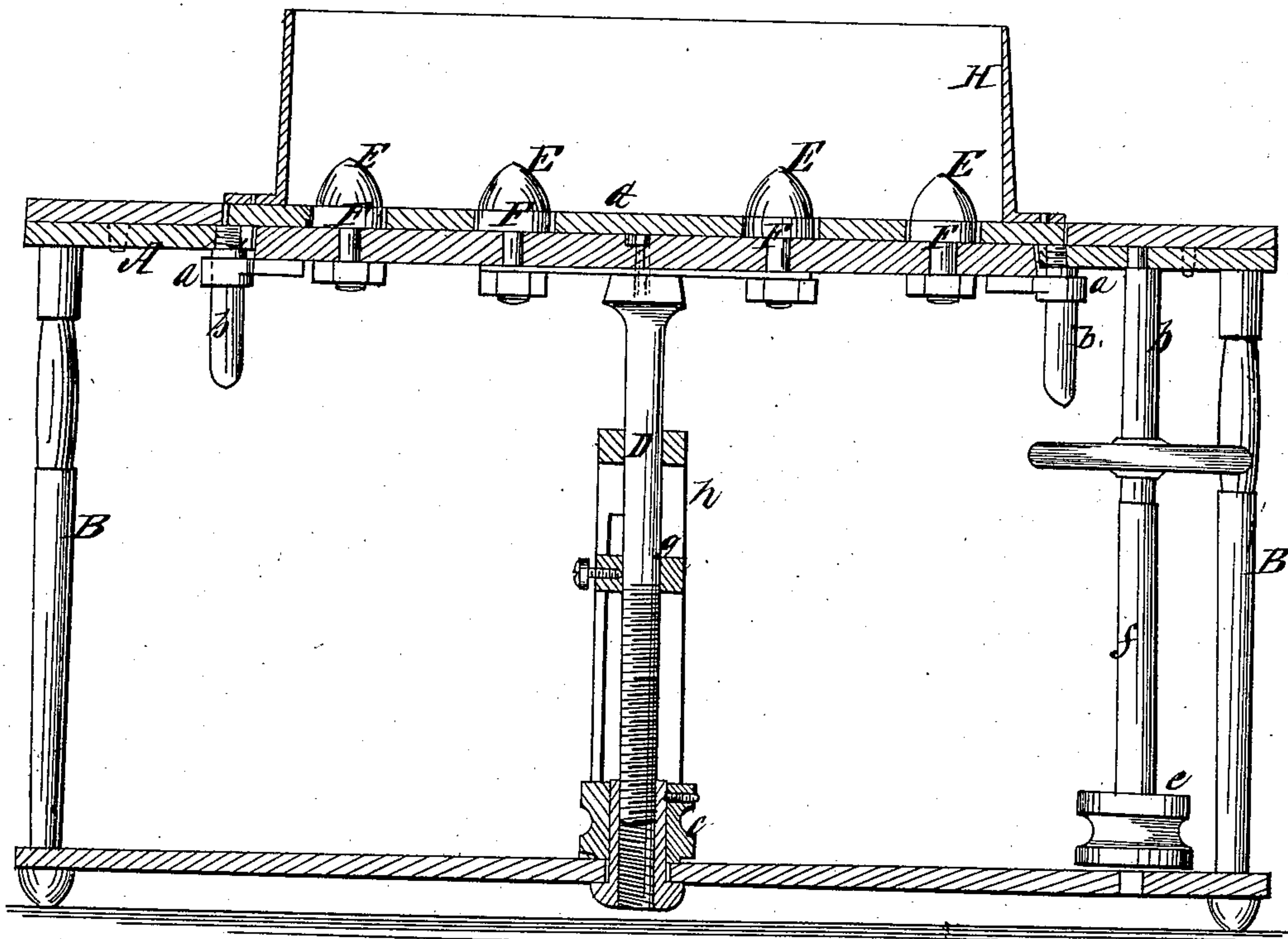
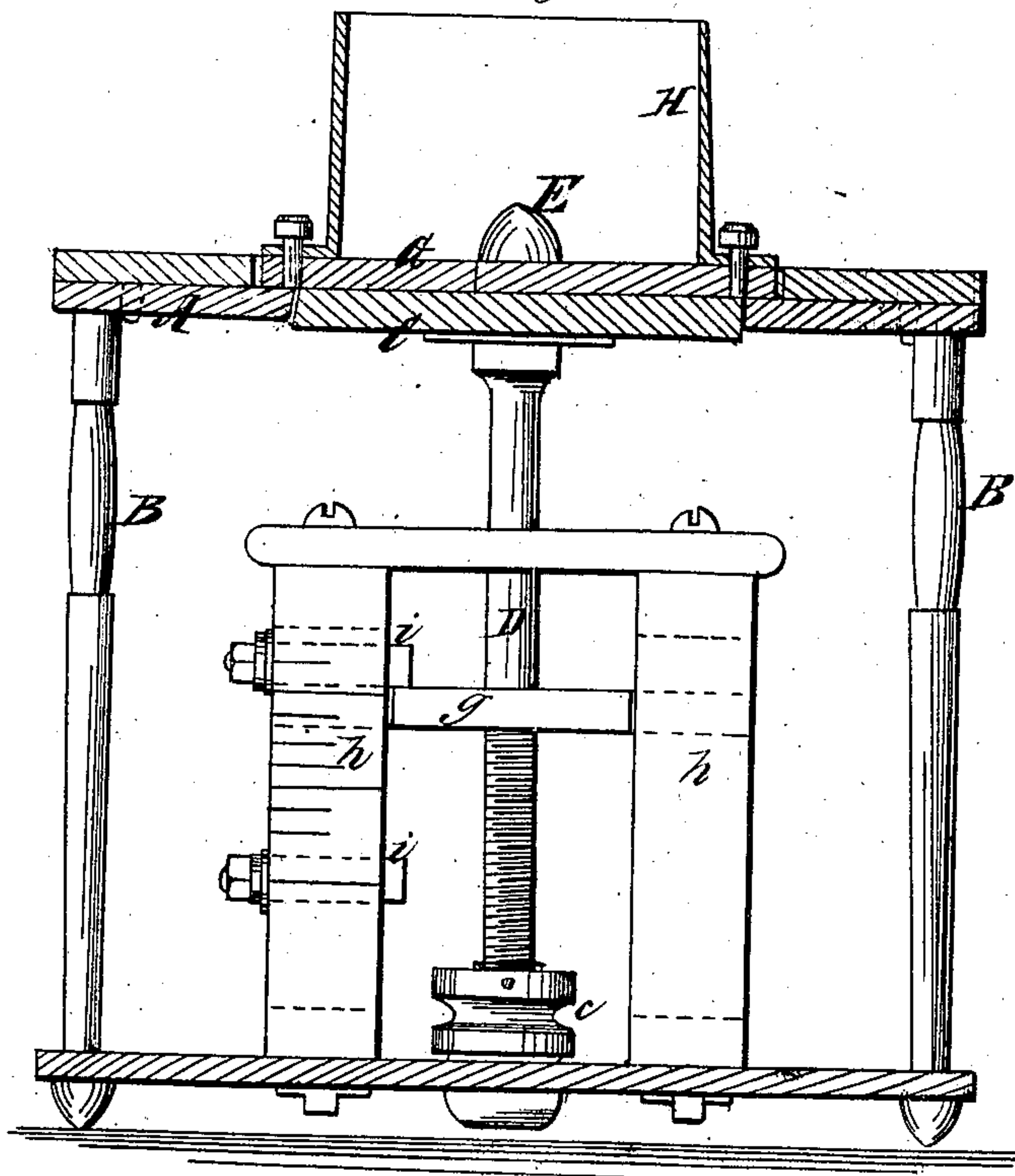


Fig: 2.



Witnesses:

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United States Patent Office.

S. J. PEET, OF NEW YORK, N. Y.

Letters Patent No. 100,319, dated March 1, 1870; antedated February 16, 1870.

IMPROVEMENT IN MACHINE FOR PRODUCING MOLDS.

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, S. J. PEET, of the city, county, and State of New York, have invented a new and improved Machine for Producing Molds; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which drawing—

Figure 1 represents a longitudinal vertical section of this invention:

Figure 2 is a transverse section of the same.

Similar letters indicate corresponding parts.

This invention relates to a machine which is composed of a movable table to which the patterns are secured, and which can be raised into a hole in a platform which supports a templet-plate and flask, in such a manner that when the flask and templet-plate are in position, and the pattern-table is raised, the operation of molding is effected by packing the flask with sand, and by lowering the pattern-table all the patterns are withdrawn from the sand simultaneously and with perfect safety to the mold.

In the drawing—

The letter A designates a platform, which is supported by columns B and provided with a hole just large enough to admit the pattern-table C.

This table may be raised and lowered by a screw-rod, D, to which motion is imparted by hand, steam, or any desirable power, and on said table are secured the patterns E which are to be moulded.

Each of these patterns rests on a pedestal, F, which is the exact size of the lower or bottom face of the pattern supported by it, and equal in height to the thickness of a templet-plate, G, which is cast of type-metal or any other suitable material, and provided with holes corresponding in size and shape to the pedestals on the pattern-table, so that if said pedestals are raised up into the holes of the templet-plate, the sand cannot pass through between the joints.

This templet-plate is placed into a recess in the platform A, whereby it is brought in the correct position to receive in its holes the pedestals secured to

the pattern-table, while if said table is raised as far as required, the patterns carried by it project above the upper surface of the templet-plate.

On the templet-plate is placed the flask H, containing the molding-sand, and by ramming the sand down over the patterns E the molds are formed.

After this operation has been completed, the pattern-table C is lowered, and all the patterns secured to it are simultaneously withdrawn out of their molds, even by unskilled hands, with perfect safety to the molds, thus saving all the labor of patching-up the molds, which are liable to get broken if the patterns are withdrawn in the ordinary manner.

The pattern-table is guided by loops or eyes a catching over guide-bars b, which are secured to the bottom surface of the platform A, and the required rising-and-falling motion is imparted to said table by the screw-rod D, which is tapped into the hub of a pulley, c, and guided by a cross-bar, d, the pulley c being revolved by means of a belt passing round it and round another pulley, e, mounted on a vertical arbor, f, that receives its motion by hand or any other power.

To the screw-rod D is firmly secured a cross-head, g, which moves between the slotted standards h.

In one of these standards are secured the movable stops i, which are set to correspond to the required motion of the pattern-table.

Having thus described my invention,

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

1. The movable pattern-table C, in combination with pedestals F, templet-plate G, and flask H, substantially as described.

2. The adjustable stops i of the slotted standard h, in combination with cross-heads g, screw D, and pattern-table C, substantially as described.

This specification signed by me, this 17th day of June, 1869.

S. J. PEET.

Witnesses:

C. BONSOR,

W. H. WATSON.