O. V. Evans,

Brick Machine,

No. 82,301, Patented Sept. 22, 1868.

Fig. 1.

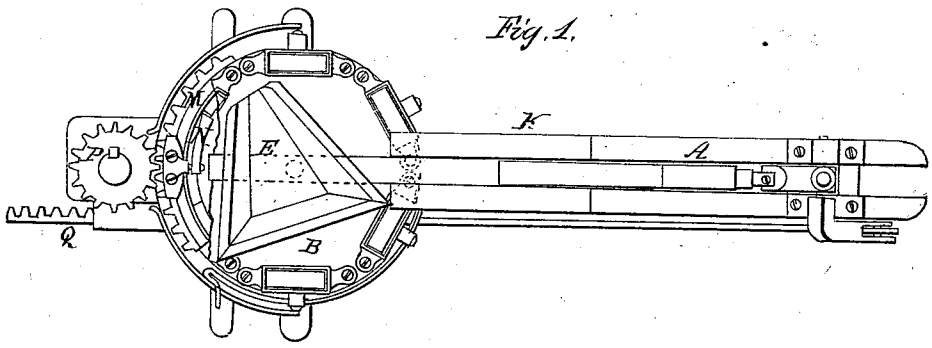
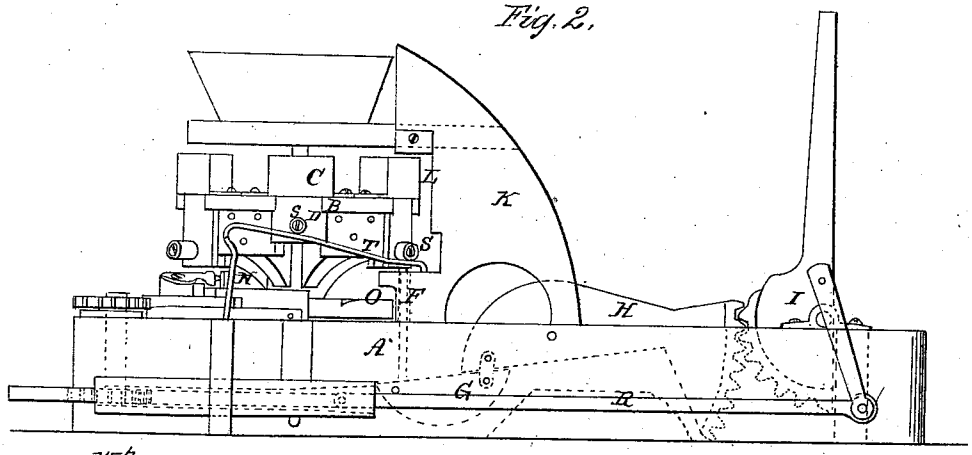


Fig. 2.



Witnesses,
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United States Patent Office.

OWEN V. EVANS, OF RIPLEY, OHIO, ASSIGNOR TO HIMSELF AND JAMES REYNOLDS, OF SAME PLACE.

Letters Patent No. 82,301, *dated September* 22, 1868.

IMPROVED CONCRETE-BLOCK-MAKING 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, OWEN V. EVANS, of Ripley, in the county of Brown, and State of Ohio, have invented a new and useful Improvement in Concrete-Block Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a plan view of my improved machine.

Figure 2 represents a side elevation of the same.

Similar letters of reference indicate like parts.

The nature of my invention relates to improvements in presses for making concrete blocks, whereby it is designed to provide a simple and effective machine for accomplishing the same; and it consists in the arrangement and combination of the parts, as will be more fully described on reference to the accompanying drawings.

On a suitable bed, A, a table, B, is arranged to revolve in a horizontal plane, which is provided with moulds C, which are provided with vertically-sliding flanges D.

Surmounting the said revolving table, is a hopper, E, into which the material to be compressed is placed, from which it is fed into the moulds C.

F represents a vertical slide, for forcing the flanges D up into the moulds, compressing the concrete or other material therein against the shoulder of the vertical posts K K, formed by the recess L therein. The said slide F receives motion through the medium of the levers G, H, and I.

The table B receives intermittent motion from the intermittent motion of a toothed segment, M, provided with a pawl, N, which takes into corresponding notches in a disk attached to the vertical shaft of the table B. The said oscillating segment is operated by a pinion, P, rack Q, connecting-rod R, and hand-lever I.

The two sets of devices for operating the slide F and table B are so arranged, relatively to each other, that while the slide F is moving the vertical presses D, the segment M is being drawn backward, and the table is at rest, and while the slide F is being drawn downward, the segment is moving forward, and causing the table to move.

The sliding pressers D are provided with friction-rollers S, which ride up the inclined plane T, after passing the pressing-slide F, whereby the compressed blocks are ejected from the moulds. After passing the inclined plane T, the pressers drop down again, and the moulds are prepared to be filled again, as they arrive at the proper position under the hopper.

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

1. The combination, with the table B, of the disk O and slide F, oscillating toothed segment M, pinion P, and rack Q, substantially as and for the purpose described.

2. The combination of the mechanism for operating the sliding pistons D, with the mechanism for rotating the table B, when the same are arranged to operate relatively to each other, substantially as and for the purpose described.

The above specification of my invention signed by me, this 9th day of March, 1868.

OWEN V. EVANS.

Witnesses:

JOHN MCCAGUE,

A. T. BOSWELL.