

(No Model.)

J. J. SCHILLINGER.

MACHINE FOR MAKING BUILDING BLOCKS.

No. 293,525.

Fig. 1. Patented Feb. 12, 1884.

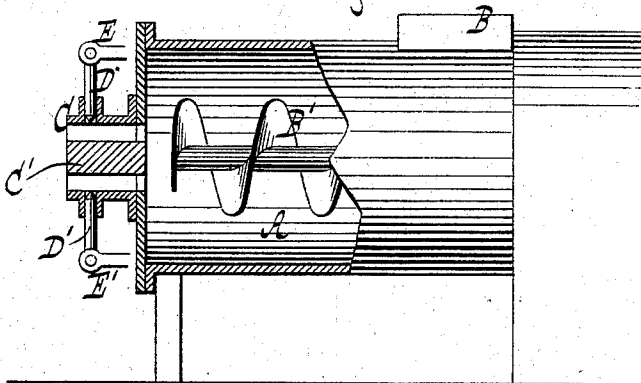


Fig. 3.

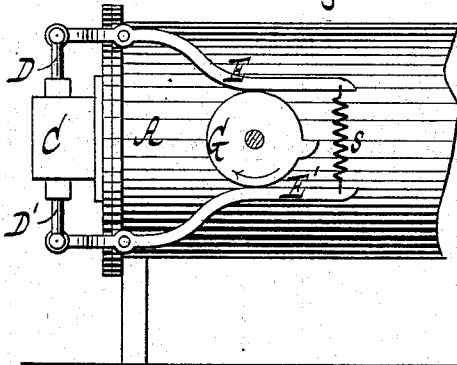


Fig. 2.

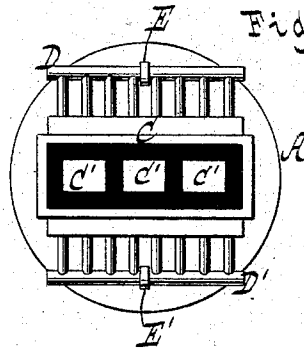
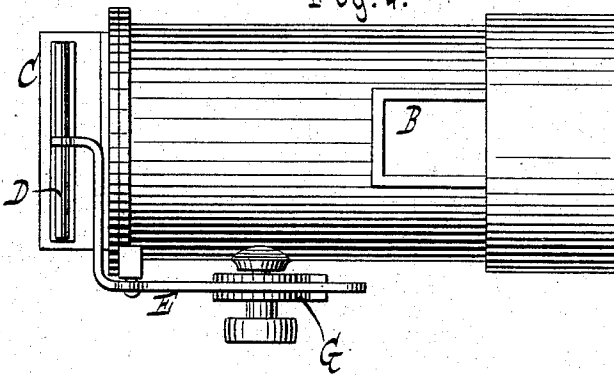


Fig. 4.



WITNESSES:

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JOHN J. SCHILLINGER, OF NEW YORK, N. Y.

MACHINE FOR MAKING BUILDING-BLOCKS.

SPECIFICATION forming part of Letters Patent No. 298,525, dated February 12, 1884.

Application filed November 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. SCHILLINGER, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Machines for Making Building-Blocks, of which the following is a specification.

My invention relates to machines for making building-blocks from a plastic composition, and especially such machines in which the composition is expelled from the hopper by a suitable feed or propelling device through a block-forming die.

The object of my invention is to provide the machines referred to with a means for perforating the blocks; and to this end it consists in the arrangement of punches in one or both sides of the block-forming die, as hereinafter more fully set forth.

In the accompanying drawings, Figure 1 is a side view, partly in section, of a machine embodying my invention. Fig. 2 is an end view thereof. Fig. 3 is a side view. Fig. 4 is a plan or top view.

Similar letters indicate corresponding parts. The letter A designates the feed-hopper, having a suitable opening, B, in the top, for introducing the proper composition.

B' designates the feed device of the hopper, consisting, in this example, of a screw; and C, the block-forming die, arranged in proper relation to the screw, for receiving the material expelled from the hopper by its means.

The letters D D' indicate the punches of the die. In the present example these punches are arranged in two opposite sides of the die; but it should be understood that one set of the punches may be omitted, as when the blocks are to be perforated only on one side. Each set of the punches D D' extends transversely to the die C, opposite to suitable holes therein, and each set is supported by a lever, E or E', engaging with a trip-wheel, G, so that when a revolving motion is imparted to this wheel it acts on the levers, and thence on the punches,

to impart to the latter a reciprocating motion, whereby the punches are made to act on the material passing through the die C in the proper manner for perforating the blocks as they are formed by the die. The levers E E' and the trip-wheel G are mounted on the hopper in suitable positions, while, for the purpose of keeping the levers in engagement with the wheel, a suitable spring, s, or suitable weights, may be used, and since the trip-wheel is common to both levers, the whole constitutes a simple means for operating the punches; but it is evident that other means may be used for this purpose.

The holes formed in the blocks are intended, chiefly, to admit a nail into a wall in which the blocks may be used; and to this end the punches are preferably made of tapering form, as shown, and to operate alternately, so that the holes in one side of the block alternate in position with those in the other side.

When the blocks are to be hollow, suitable internal dies, C', are combined with the other or main die.

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

1. The combination, substantially as hereinbefore described, with the hopper, its feed device, and the block-forming die, of the reciprocating punches arranged in the die for perforating the blocks, and a means for imparting motion to the punches.

2. The combination, substantially as hereinbefore described, with the hopper, its feed device, and the block-forming die, of the reciprocating punches arranged in opposite sides of the die, the levers supporting the punches, and the trip-wheel common to both levers.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

JOHN J. SCHILLINGER. [L. s.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.