

No. 747,496.

PATENTED DEC. 22, 1903.

H. H. SPEARS.
MOLD FOR CONCRETE BLOCKS.
APPLICATION FILED AUG. 21, 1903.

NO MODEL.

Fig. 1.

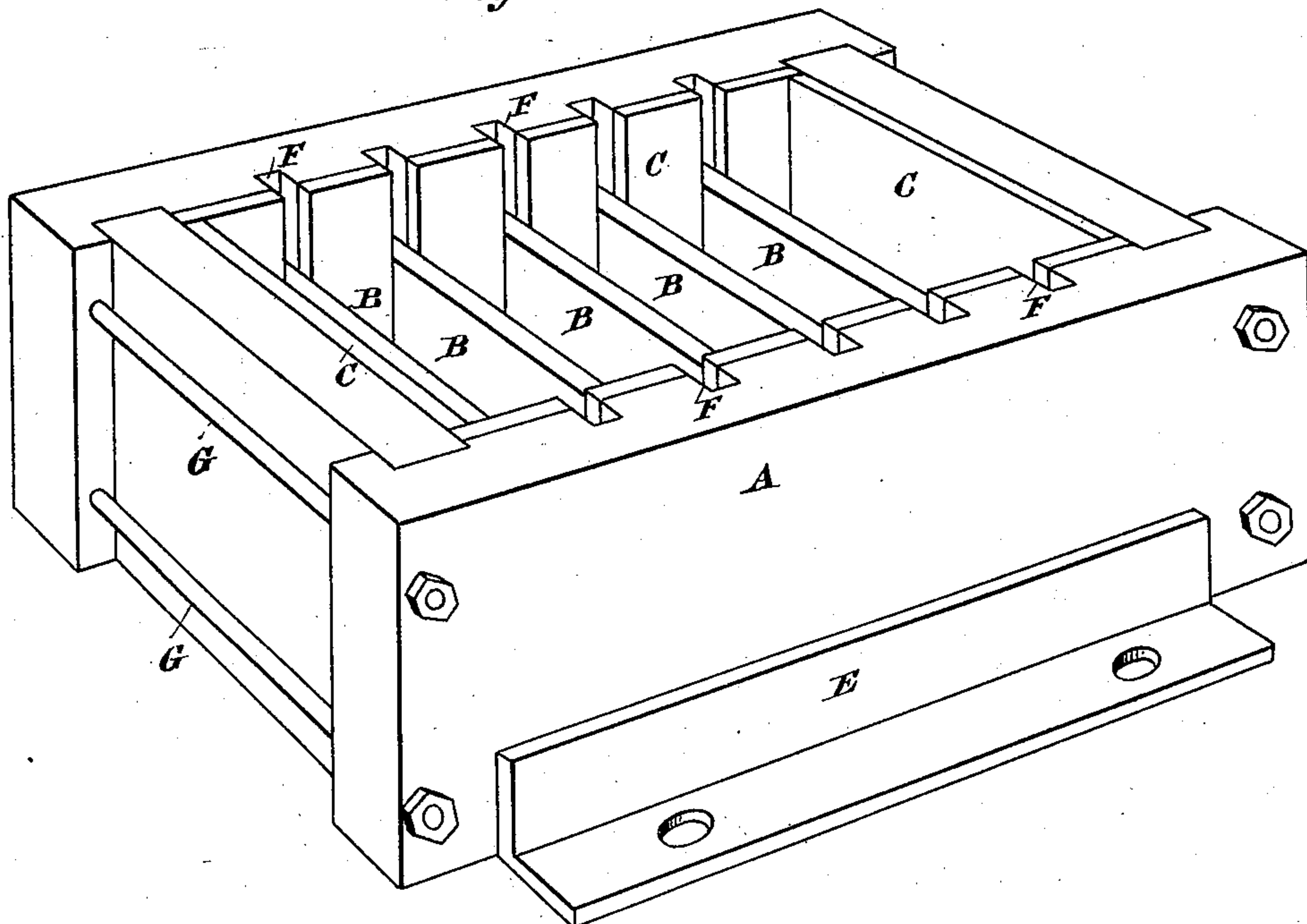
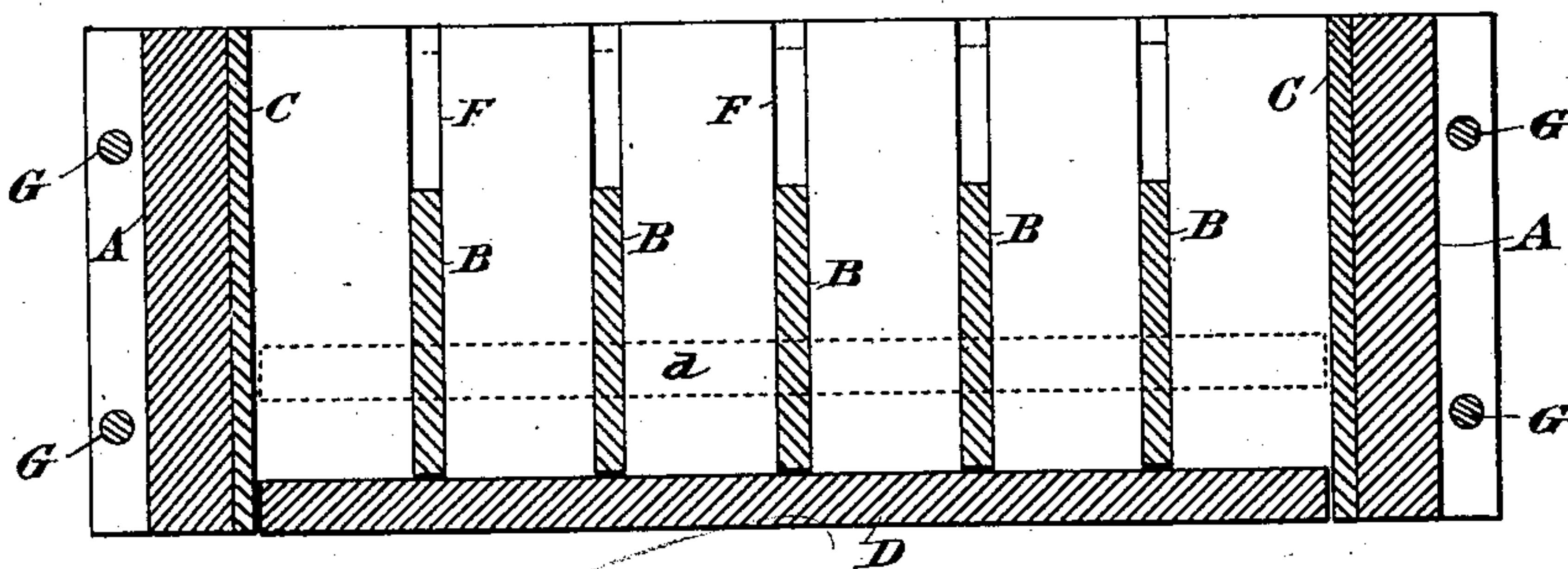


Fig. 2.



WITNESSES.

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MOLD FOR CONCRETE BLOCKS.

SPECIFICATION forming part of Letters Patent No. 747,496, dated December 22, 1903.

Application filed August 21, 1903. Serial No. 170,255. (No model.)

To all whom it may concern:

Be it known that I, HENRY H. SPEARS, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented a new and useful Mold for Concrete Blocks, of which the following is a specification.

My invention relates to improvements in molds for concrete blocks having the shape of bricks, with a view of having all the blocks, which are placed into the mold—say from six to ten—compressed at one stroke and to a uniform size instead of having each of them tamped separately, as it is done at present; also to have the blocks separated from each other by the same action which compresses them. I attain these objects by the mechanism illustrated in the annexed drawings, in which—

Figure 1 is a perspective view of the mold with six compartments. Fig. 2 is a vertical section of the same without the extensions at its base.

The same letters in both figures represent the same parts.

There is a rectangular wooden box without lid or bottom, of which the outer walls are marked A A and strengthened by iron rods G G, which connect its longer sides. It is lined on all sides with metal plates C C, which, however, are interrupted along the longer sides by the grooves F F. The width of the box in the clear is equal to the length of a block to be produced, its height about one-half greater than the width of the block when compressed. The grooves F F are in number one less than the number of blocks to be pressed. Hence there are five of them in the figures. There would be nine in a mold for ten blocks. The distance between these slides is equal to the desired thickness of the blocks. This arrangement indicates the proper length of the box. There is a movable bottom or following-board (marked D) and slides B B, fitting into the grooves in the long sides of the box and in height equal to about two-thirds of the clear space thereof. In the second figure the dotted lines *d* show

the position of the following-board when it rises. The unshaded spaces over B B show the position of the slides when they, with the following-board, are pushed upward.

There is a strip of angle-iron E attached at the lower edge to each of the two longer sides of the box to broaden it, and thus to give it a better support.

In operation the box or mold will be fitted into a brick-pressing machine of proper size, which it is needless for me to describe and which will furnish it with a close-fitting lid or die. Before putting the mold into this machine the following-board D will be put into the box at its bottom and the slides into the lower parts of the grooves, as shown in Fig. 2. Then the box will be filled with concrete. The following-board will be exposed to the stroke of a plunger of the brick-machine from below. One stroke will compress the concrete to about two-thirds of its former size and will drive the slides up to the top of the box, thus separating the concrete into the proper number of blocks. The following-board, with the blocks and the slides, is then lifted by another stroke of the plunger out of the mold, and the blocks are then ready for drying and hardening and may be taken off the board in a few hours, when the following-board and slides can again be put to use. It will be seen that many following-boards and as many sets of slides will have to be used in combination with one open box.

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

The combination in a mold for concrete blocks, of a bottomless and lidless box, long enough for a given number of such blocks in one direction, and so grooved as to divide it into chambers of like number, with slides of about two-thirds of the height of the box in height and a following-board fitting into the open bottom of the box, for the purposes above set forth.

HENRY H. SPEARS.

Witnesses:

A. L. DEMBITZ,
HENRY M. JOHNSON.