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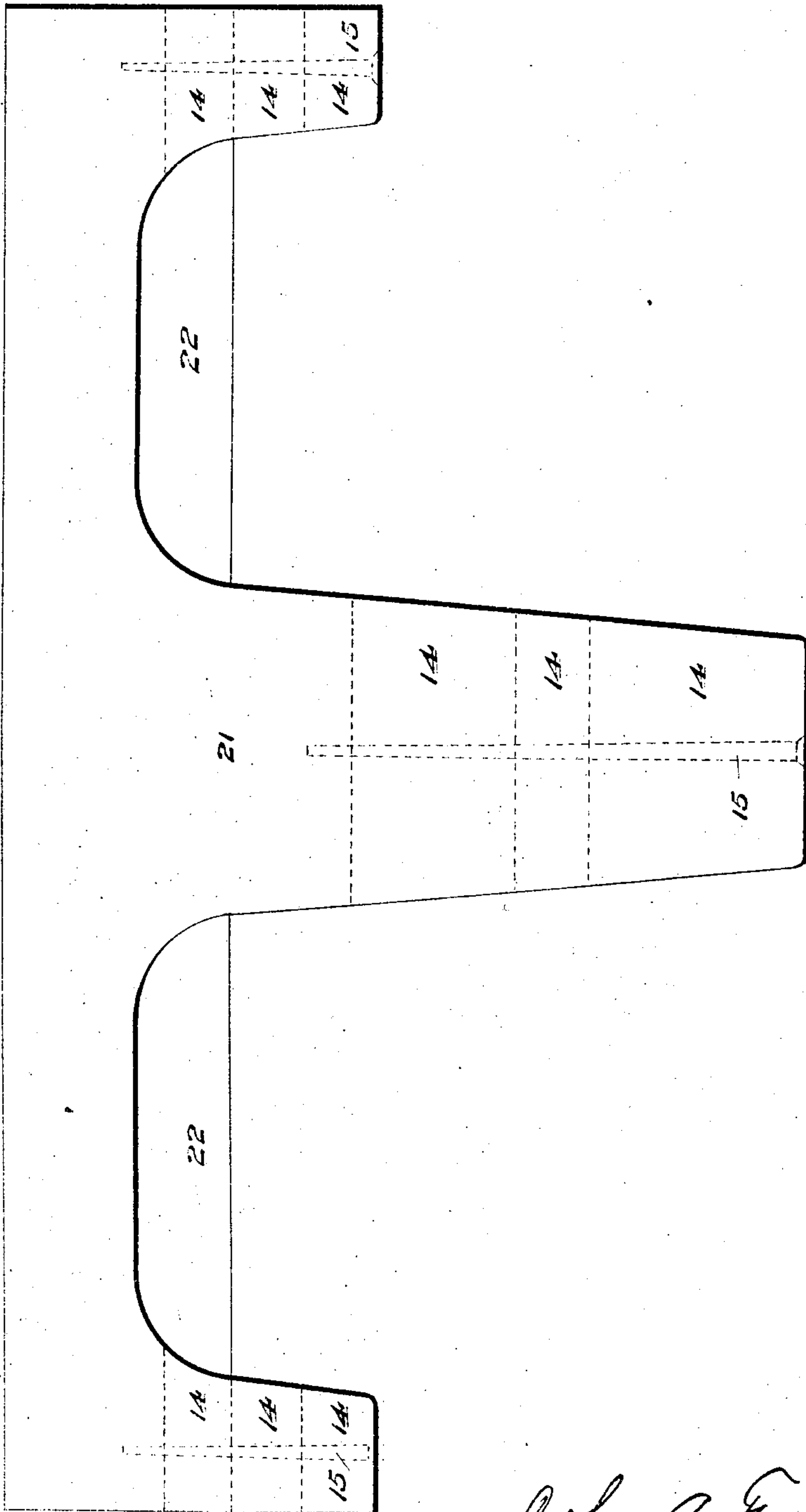
J. A. FERGUSON.
MOLD FOR BUILDING BLOCKS.

APPLICATION FILED JUNE 2, 1904.

NO MODEL.

2 SHEETS—SHEET 2.

Fig. 2.



Witnesses

W. A. Spencer
W. A. Spencer

By

Inventor
John A. Ferguson
Attorney
E. H. Bond

UNITED STATES PATENT OFFICE.

JOHN ALBERT FERGUSON, OF DENVER, COLORADO.

MOLD FOR BUILDING-BLOCKS.

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To all whom it may concern:

Be it known that I, JOHN ALBERT FERGUSON, a citizen of the United States of America, and a resident of the city and county of Denver, in the State of Colorado, have invented certain new and useful Improvements in Molds for Building-Blocks, of which the following is a specification.

This invention relates to certain new and useful improvements in molds and cores for the manufacture of artificial building-blocks.

It has for its object primarily, among others, to provide an improved mold and core whereby blocks of different heights as well as blocks of different thickness may be formed and also different shapes given to the blocks.

Detachable and removable fillers are employed, one set for fixing the height of the blocks and the other set for different widths of wall, the cores being interchangeable for different shapes of the blocks. By this means the one mold is given a capacity for blocks for walls varying from three to twenty inches in thickness, more or less.

Broadly considered, the above constitutes the gist of the present invention, which aims also at further improvements in the details of construction whereby the above ends are accomplished.

Other objects and advantages of the invention will hereinafter appear, and the novel features thereof will be specifically defined by the appended claims.

The invention in its preferred form is clearly illustrated in the accompanying drawings, which, with the numerals of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a substantially central section through a mold-box, showing one form of embodiment of the invention. Fig. 2 is a view of one of the cores employed.

Like numerals of reference indicate like parts in the different views.

The mold-box shown in Fig. 1 is adapted for the forming of two half-blocks; but it is evident that by removing the division wall or partition 1 from the center thereof the box would be adapted for making one single block of substantially twice the size of each half-

block. The present invention is in no wise restricted to the size or shape of the block nor to the making of a half or a whole block. Therefore where in the following description the term "block" or "building-block" is employed it is to be understood as covering and having reference to a building-block regardless of its general shape or whether it be a block of full dimensions or a block designed for any particular use, as at the corner of a wall, or a half-block.

Referring now to the details of the drawings, 2 designates the mold-box, which may be of any suitable material and size, dependent upon the character of the block to be molded. The bottom 3 of the box may or may not be provided with a vent or vents for an obvious purpose, the sides 5 being of requisite height.

6 indicates the top of the box, while the dotted line 7 in Fig. 1 indicates the top of the block after being pressed.

The core 8 may be of wood or any other suitable material. It is applied within the mold-box in the usual manner and is designed to be easily removable in order that a core of another form may be readily applied in its stead whenever it is desired to form blocks of different shapes.

As above mentioned, the mold-box shown in Fig. 1 is designed for the formation of two half-blocks, and for this purpose the central partition 1 is provided having by preference the tapered sides and extending upward to the point corresponding with the top of the block after it has been pressed. The core is formed to give the largest formation of block desired. When it is desired to form a block of less dimensions, one or more removable fillers 9 are employed, according to the thickness and length of arm or arms of the block desired. The fillers 9 are each provided with a vent-opening 10, coinciding with the vent 11 in the bottom of the portion 12 of the core, as shown clearly in Fig. 1. These fillers may be held together, but readily detachable one from another by any suitable means, as by a screw 13. It will be readily understood how by employing one or more of these fillers the length of the arm of the block may

be varied. For a block having the longest arm no filler would be employed. For a block having an arm of, say, sixteen inches one of the fillers would be employed, two for a block having an arm of, say, twelve inches in length, and so on. The fillers may be made of any required thickness to give the desired length of arm.

In Fig. 2 is shown a core designed for forming building-blocks having a central arm and an arm at each end of the block. This is but one of the many forms of core that may be employed. In this form the fillers 14 are detachably held together by means of screws 15.

The removable fillers 16 (seen at opposite sides of the core and mold-box in Fig. 1) serve to give different shapes to the molded block, giving not only different length of the side arms of the block, but also varying the thickness of such arms. As will be readily seen, these fillers 16 have the portions 19 designed to rest upon the lower fillers 18, to which they may be detachably secured in any suitable manner, as by the screws 17, and the inclined portions 20, which give the requisite shape to the end arms of the block as well as the thickness thereof.

It will be readily understood that the form of fillers 16 shown in the form of mold-box shown in Fig. 1, designed for half-blocks, can be employed in a core for forming whole blocks, such as the core 21 seen in Fig. 2. It will also be readily understood how by the employment of the removable fillers and the interchangeable cores, as above described, almost any desired size and shape of building-block may be formed. In order to give the main or body portion of the block the requisite thickness and shape, removable pieces 22 may be employed, which pieces may be of the thickness and shape which it is desired to give the completed block.

The mode of use will be apparent from the foregoing description, when taken in connection with the annexed drawings. The mold being complete, the plastic material used in the construction of the block is placed in the mold and compressed in any suitable manner.

The construction described permits of quick and easy manipulation of the cores and fillers to adapt the mold for the formation of the required shape and size of the block, and while the structural embodiment of the invention as herein disclosed is what is at the present time considered preferable it is evident that the same is subject to changes, variations, and modifications in detail without departing from the spirit of the invention or sacrificing any of its advantages. Therefore it is not intended to restrict the invention to the exact details herein described; but the right is reserved to make such changes, variations, and modifications as come properly within the scope of the protection prayed.

What is claimed as new is—

1. The combination with a mold-box, of removable means cooperating therewith and matching to each other to vary the character of the block formed thereby, and means in addition to the walls of the box for holding said means in relative fixed position within the box. 65
2. The combination with a mold-box having vents, of interchangeable means for giving different character to the block formed therein, said means having vents. 75
3. The combination with a mold-box, of interchangeable fillers matching to each other and means for holding the fillers together within the box irrespective of the engagement therewith of the walls of the box. 80
4. The combination with a mold-box, of a removable core, removable fillers matching to each other and means for holding the fillers detachably together irrespective of the walls of the box. 85
5. A core having a plurality of detachable fillers supported directly upon and matching to each other, whereby they are held fixedly with relation to each other and the walls of the box and are readily removable to change the character of the block formed. 90
6. A core having a plurality of removable fillers having vents and supported directly upon each other for varying the size and shape of the block to be formed, and positive means engaging said fillers for holding them in fixed relation. 95
7. The combination with a core having a vent, of a removable filler having a coincident vent. 100
8. A core having a plurality of superposed fillers supported directly upon and matching to each other and removable bodily or singly. 105
9. A core having a plurality of superimposed fillers supported directly upon each other and having inclined sides and matching to each other, and means for securing the said fillers together and in position irrespective of the sides of the box. 110
10. A core having a removable filler with a vertical vent-opening therethrough for cooperation with a vent-opening in the mold-box. 115
11. A mold-box for forming two half-blocks simultaneously, said box having a central partition, and superimposed removable fillers upon each side of said partition having coincident vents. 120
12. A mold-box having a central partition, and removable fillers adapted to serve therewith, said fillers being disposed upon opposite sides of the partition and those on each side of said partition detachably connected together. 125
13. A molding device having a removable filler detachably retained within the same at the bottom thereof and having a vent and fix-

edly held in position irrespective of the walls of the molding device.

14. A molding device having a removable filler with a vent detachably retained therein
5 at the bottom thereof.

15. A molding device having a removable filler with a vent therethrough for coöperation with a vent in the mold-box.

16. A mold-box, a removable core, and re-
10 movable fillers supported directly one upon the other and matching to each other for use

with said core and box, and means for detachably connecting the fillers and holding them in fixed relation irrespective of the walls of the mold-box.

Signed by me at Denver, Colorado, this 28th
day of May, 1904. 15

JOHN ALBERT FERGUSON.

Witnesses:

STANLEY E. WILMOT,
HENRY J. STEPHENS.