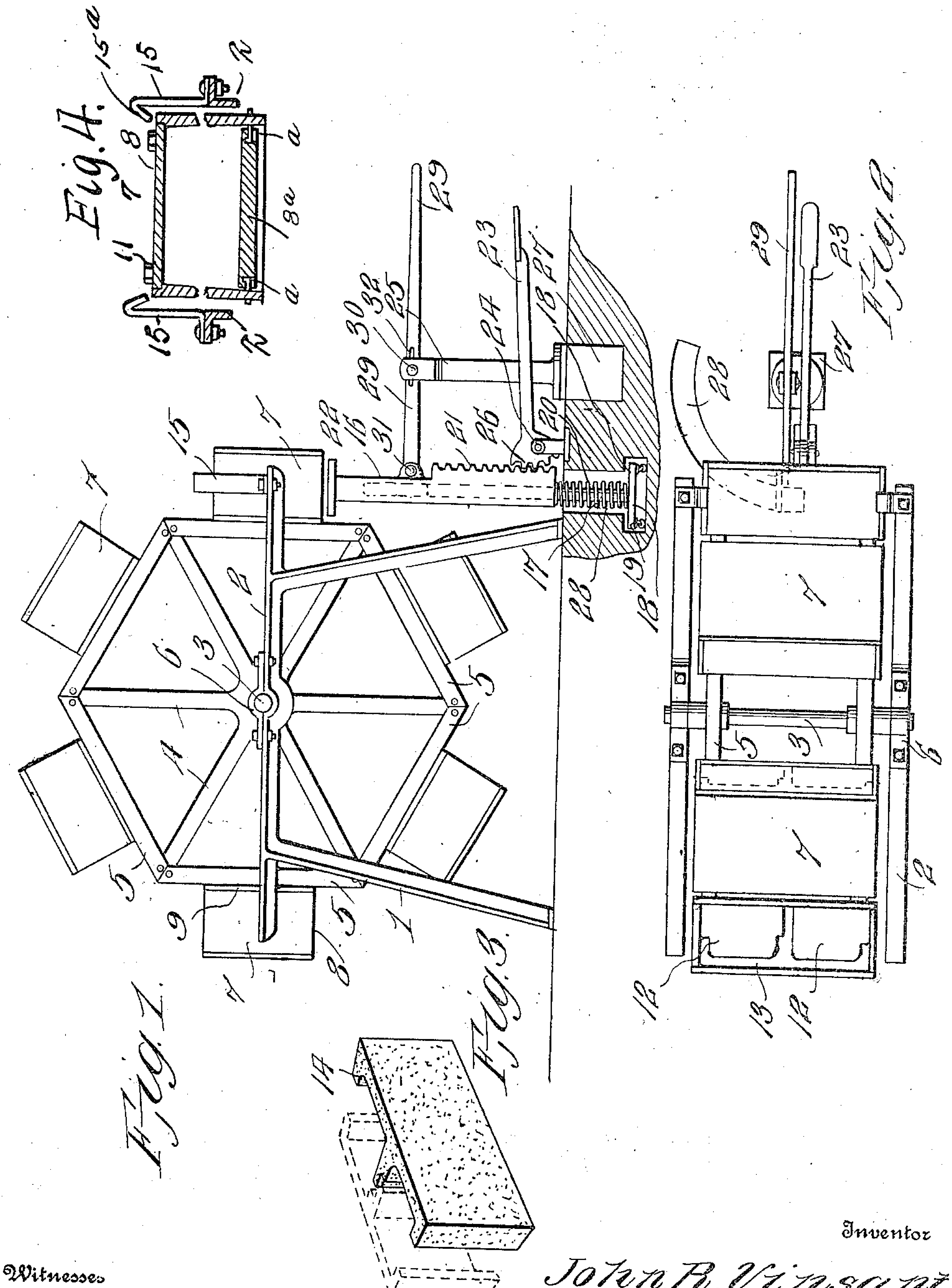
J. R. VINSANT.

MACHINE FOR MOLDING BUILDING BLOCKS.

APPLICATION FILED SEPT. 19, 1908.

966,271. Patented Aug. 2, 1910.



Witnesses
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UNITED STATES PATENT OFFICE.

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MACHINE FOR MOLDING BUILDING-BLOCKS.

966,271. Specification of Letters Patent. **Patented Aug. 2, 1910.**

Application filed September 19, 1908. Serial No. 453,743.

To all whom it may concern:

Be it known that I, JOHN R. VINSANT, a citizen of the United States of America, residing at Raydon, in the county of Hughes and State of Oklahoma, have invented new and useful Improvements in Machines for Moiding Building-Blocks, of which the following is a specification.

This invention relates to machines for molding building blocks, and one of the principal objects of the same is to provide a machine for the purpose referred to which will be quick in operation and which will form a compact building block.

Another object of the invention is to provide a machine for continuously forming building blocks of a moldable material, means being provided for pressing the blocks in the mold blocks and for discharging the same quickly therefrom.

These and other objects may be attained by means of the construction illustrated in the accompanying drawing, in which,—

Figure 1 is a side elevation of a machine made in accordance with my invention. Fig. 2 is a plan view of the same. Fig. 3 is a perspective view of one of the blocks formed in the machine, showing a mating block in dotted lines, said two blocks being disposed in position to form a wall having ventilating openings extending vertically therethrough. Fig. 4 is a vertical sectional view of one of the mold boxes in position at the right hand side of the wheel, the core being omitted.

Corresponding parts in the several figures are denoted by like characters of reference.

Referring to the drawing, the numeral 1 designates the legs of a suitable frame provided with a horizontal bar 2 upon which is journaled a shaft 3, said shaft extending through a skeleton wheel comprising radial arms 4 and supporting tables 5. The shaft 3 is held in position by means of suitable keepers 6 bolted to the bars 2. Secured to each of the tables 5 is a mold box 7, said mold box comprising a bottom 8, a rear side wall 9, sides and front, all formed integral. Inside the box the cores 12 extend from the bottom to near the top of the box, and the space 13 forming the building block 14 receives the concrete or plastic material for forming said block at the left hand side of the wheel, as shown in Fig. 1. A pallet is placed within the box upon the top of the block.

At the right hand side, as shown in Fig. 1, springs 15 are secured to extensions of the bar 2, said springs having downwardly extending terminal hooks 15^a for holding the box down against the upward movement of the follower 16. Said follower is mounted upon a vertical standard 17, the lower end of which is provided with a base 18 mounted on rollers 19. A spiral spring 20 surrounds the standard 17 and normally raises the follower 16. A toothed rack 21 is formed in the follower, and at the upper end of said follower a presser head 22 is provided, said presser head being of substantially the same size as the mold box and designed for movement within the same. To raise the follower 16 in order to subject the block in the mold box to pressure, a lever 23 is provided, said lever being pivoted at 24 to a standard 35, said lever having a sector 26 formed thereon to engage the teeth of the rack 21. The standard 25 is pivoted to a block 27 which is anchored in the ground or secured to the floor of the building or structure where the device is installed. A curved groove or runway 28 is formed in the ground or in the floor of the building in which groove the base or truck 18 of the follower 16 is mounted. A lever 29, pivoted at 30, to the standard 25 is provided for moving the follower from under the mold box, said lever being connected at 31 to the follower and provided with a slot 32 through which the pivot 30 passes.

The operation of my invention may be briefly described as follows: The boxes at the left hand side of Fig. 1 are filled with material for forming the building blocks 14, and when they are moved by rotating the arms 4 to the right hand side of the machine, the box is engaged by the springs or resilient members 15, whereby it may be held against reverse movement, while the contents of the box is being subjected to pressure. While the wheel is being turned, the pallet to which reference has hereinbefore been made, and which is indicated at 8^a in Fig. 4 of the drawing, may be retained in position by the hand of the operator or by retaining means of any suitable and well known character. By actuating the lever 23, the follower 16 is moved upward to press the contents of the box, and after the follower has been withdrawn the pressed block may be removed, and the wheel may be further rotated, the follower being meanwhile swung out of the way by means of the lever 29, whereby the

truck supporting said follower is moved in the groove or runway provided for the purpose.

From the foregoing description it will be seen that a machine made in accordance with this invention can be operated quickly and efficiently to form building blocks of the character indicated.

Having thus described the invention, what is claimed as new, is:—

1. A machine for molding concrete blocks comprising a wheel, mold boxes connected to the wheel, a follower having a presser head secured thereto, a standard mounted upon caster wheels, a spring surrounding said standard and bearing against the lower end of said follower, a toothed rack formed on said follower, a sector lever for engaging the rack, a curved track, and a lever for moving the follower and the standard in said curved track.

2. In a machine for forming building blocks, a wheel, a series of mold boxes secured to the wheel, a follower mounted upon a standard, a curved track in which said standard is mounted, rack teeth formed on said follower, a sector lever engaged with said teeth, a pivoted standard, and a lever connected to said pivoted standard and to said follower for moving the follower and standard in said curved track.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN R. VINSANT.

Witnesses:
G. W. McCary,
G. G. Givens.