

No. 813,721.

PATENTED FEB. 27, 1906.

C. K. LAMBIE.
CONCRETE BLOCK MOLD AND BLOCK.

APPLICATION FILED MAY 26, 1905.

2 SHEETS—SHEET 1.

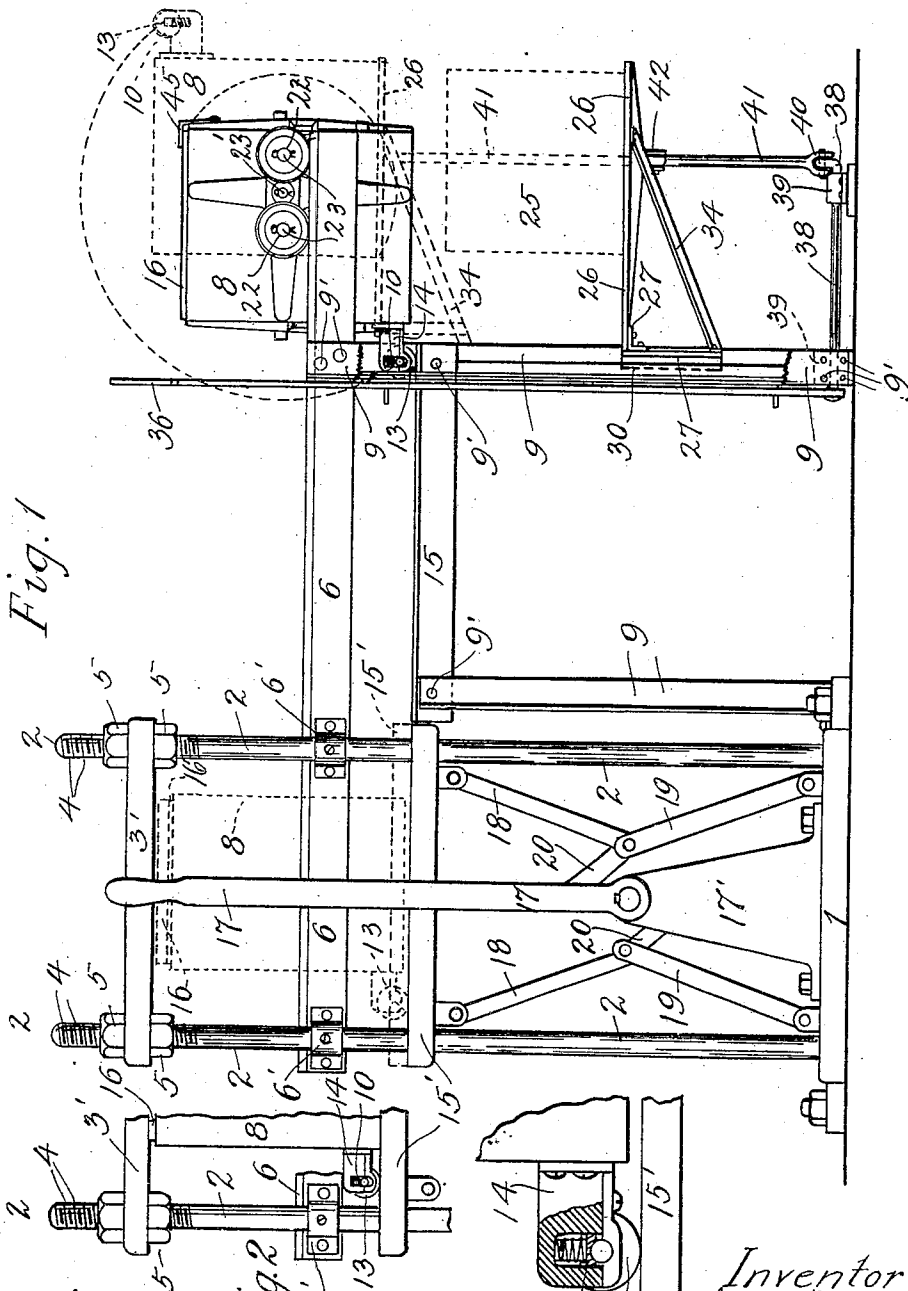


Fig. 1

Fig. 2

Fig. 3

Witnesses
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by
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Attorney

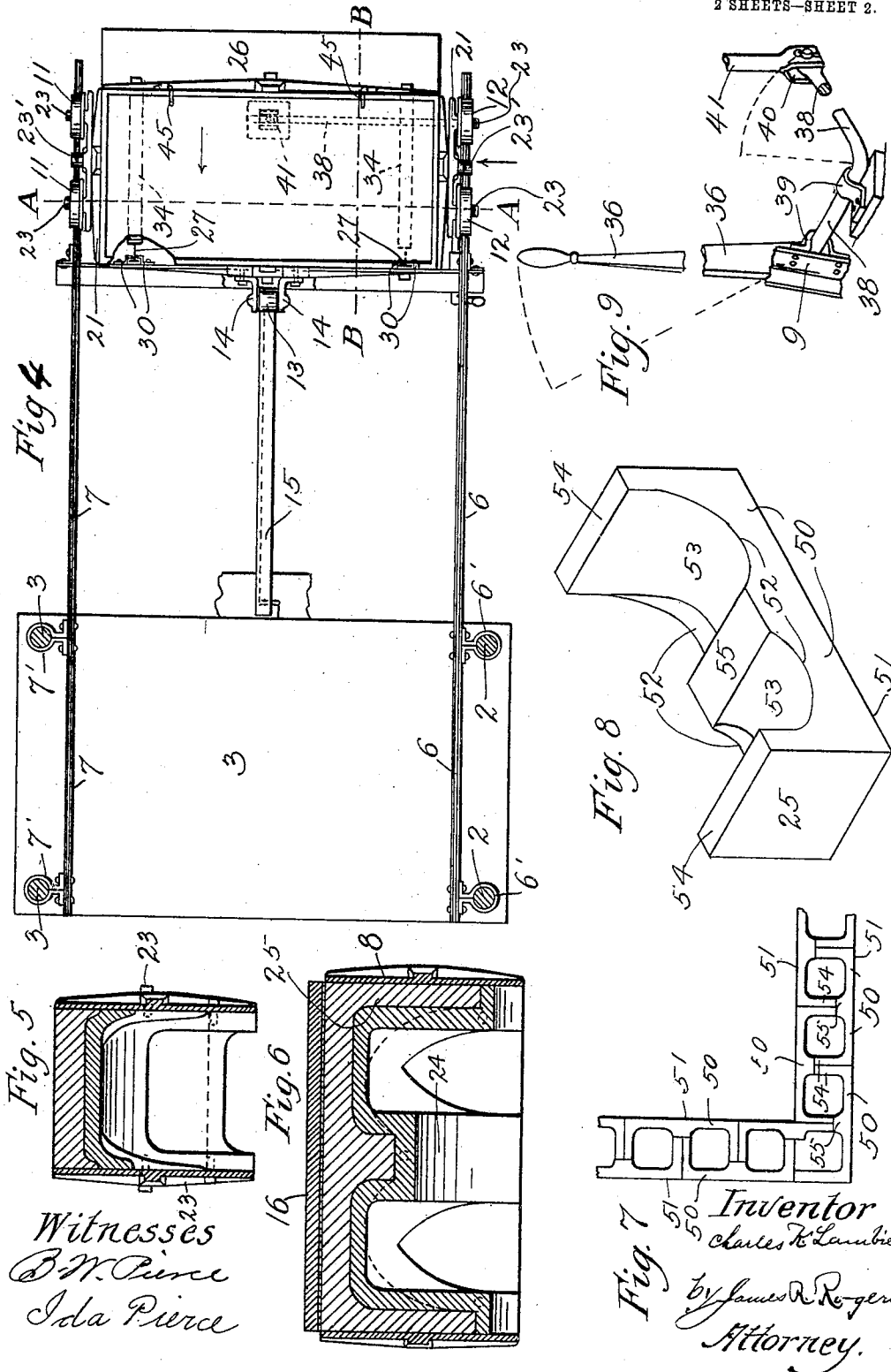
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UNITED STATES PATENT OFFICE.

CHARLES K. LAMBIE, OF LOS ANGELES, CALIFORNIA.

CONCRETE-BLOCK MOLD AND BLOCK.

No. 813,721.

Specification of Letters Patent.

Patented Feb. 27, 1906.

Application filed May 26, 1905. Serial No. 262,408.

To all whom it may concern:

Be it known that I, CHARLES K. LAMBIE, a citizen of the United States, residing at Los Angeles, county of Los Angeles, State of California, have invented and discovered a new and useful Improvement in Concrete-Block Molds and Blocks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in concrete block molds and blocks; and the objects of my invention are, first, to construct a mold that can be economically made and conveniently and economically operated, and, second, to mold a block of concrete or other plastic material within the mold that when fitted into walls will be found to be more durable than blocks heretofore manufactured.

The invention consists, essentially, of the construction, combination, and arrangement of the several parts, as will be hereinafter fully described in the specification, shown upon the drawings, and specifically pointed out in the claims made a part hereof.

I attain the objects above referred to by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a view in elevation of the mold shown in dotted lines within the press, means for raising and lowering the same, the rails or tracks for conveying the mold and the block previously compressed therein from the press, devices shown in full and dotted lines for emptying the mold of the block after being pressed therein, the table for receiving the compressed block illustrated in full and dotted lines, and the molded compressed block shown in dotted lines resting upon the table, the table in its lowest position. Fig. 2 is a view in elevation of portions of the press, parts of the mold, and rails or tracks on which the mold is carried to and from the press, other portions of said parts broken away. Fig. 3 is a view, partly in elevation and partly in section, of the mold and rail or track, other parts thereof broken away. Fig. 4 is a top plan view of the improvement shown upon Fig. 1 of the drawings, part thereof broken away. Fig. 5 is a cross-sectional view taken upon the line B B of Fig. 4.

Fig. 6 is a longitudinal sectional view taken upon the line A A of Fig. 4. Fig. 7 is a view in elevation of a series of molded blocks set in the wall of a building or other structure. Fig. 8 is a perspective view, on an enlarged scale, of one of the compressed finished blocks ready for use; and Fig. 9 is a perspective view of means for raising and lowering the table to receive the compressed block from the press.

Similar characters refer to similar parts throughout the several views of the drawings.

The reference-numeral 1 denotes the base-board of the press. 2 2 and 3 3 represent the posts of the press, having the lower ends thereof screwed into or otherwise secured in any suitable manner to the said base-board, and the upper ends of the said posts are screw-threaded at 4 4, the said posts adapted to pass through the top board 3' of the press.

The screw-threaded nuts 5 5 on each of the said posts—one below and one above the said top board 3'—serve, when desirable, to raise or lower the said top board 3', as shown upon Figs. 1 and 2 of the drawings.

The side rails or tracks 6 and 7 are fastened to the posts 2 2 and 3 3 of the press by means of keepers 6' and 7'. The said rails or tracks extend outwardly from the press and are secured to and supported upon the supports 9 9, fastened to the rails or tracks near the outer extended ends thereof by bolts or rivets 9' 9', as illustrated upon Figs. 1 and 4 of the drawings. On the said side rails or tracks 6 and 7 the wheels 11 12 of the mold 8 travel, carrying the unpressed concrete or plastic material to and within the press and outwardly therefrom to be discharged upon the table hereinafter referred to.

The truck-frames 21 21 (shown upon Figs. 1 and 4) carry the wheels 11 12, provided with holes 22 22 in the centers thereof, adapted to receive the projections 23 23 upon the truck-frames 21 21, preferably made integral therewith, and in said holes the said projections turn when the mold 8 is reversed, as illustrated in dotted lines upon Fig. 1 of the drawings.

To one side of the mold 8, by means of the projecting brackets 14 14, fastened thereto in any suitable manner, I journal the wheel 13 in spring-bearings 10, the said wheel 13

adapted to travel upon the fixed portion of the central rail or track 15 when the mold 8 is being conveyed to and from the press.

When the mold 8 is loaded with concrete or other plastic material to be compressed and the pressing-board placed therein, it is conveyed to the press upon the rails or tracks 6, 7, and 15. When within the press, the mold 8 rests upon the two rails or tracks 6 and 7, as shown in dotted lines upon Fig. 1 of the drawings, and in this position it is forced upwardly clear of the last-mentioned rails or tracks against the top board 3' of the press, as shown in dotted lines upon Fig. 1 of the drawings, by means of the hand-lever 17, pivoted to the stand 17', and the series of toggle-levers 18 18 and 19 19, pivoted, respectively, at their ends to the press-table 15', to the base-board 1, and to the levers 20 20, as illustrated upon Fig. 1 of the drawings.

The block 25 (shown in dotted lines upon Fig. 1 and in full lines upon Figs. 5, 6, 7, and 8 of the drawings) when discharged from the mold 8 is received and rests upon the table 26. The table 26 is provided with brackets 27 27, adapted to slide in ways 30 30. (Shown in full and dotted lines upon Figs. 1 and 4 of the drawings.)

The hand-lever 36 is secured to the angle-rod 38, adapted to turn in keepers 39 39. (Shown upon Figs. 1 and 9 of the drawings.) The outer or free end of the angle-rod 38 is secured to the lower forked end 40 of the brace 41, and the opposite end of the said brace 41 is secured to the under side of the table at 42. The hand-lever 36 (shown in full and dotted lines upon Figs. 1 and 9 of the drawings) when moved by the operator in one direction moves the table upward and when moved in the opposite direction the table descends.

It will readily appear from the foregoing description and from the drawings that when the mold 8 is run out of the press and the pressing-board 16 is secured by clamps 45 45 and the mold is reversed, as shown in dotted lines upon Fig. 1 of the drawings, and the table 26 is elevated to the position shown in dotted lines upon Fig. 1 of the drawings the clamps 45 45 are released, and as the table 26 is lowered the block 25 will be discharged from the core 24 within the mold 8 upon the table 26, as illustrated upon Fig. 1 of the drawings. The block 25 now resting upon the table 26, the table descends by moving the hand-lever 36 in the opposite direction to the position shown in full lines illustrated upon Fig. 1 of the drawings. The compressed finished blocks employed in the construction of walls of houses, buildings, and other structures after being discharged from the core 24 within the mold 8 are dried. The block is provided with body portion 50, having a plain flat smooth surface 51 on one side,

and on the opposite surface 52 are two concave cut-away portions 53 53 of like dimensions and of identical contour. The said surface 52 is also provided with two projections 54 54, one at each end of the block, and a central projection 55, shorter and larger than the two end projections 53 53.

The formation and shape of my new improved blocks 25 25 will be readily understood by the above description and from inspection of Figs. 5, 6, 7, and 8 of the drawings, as well as the manner of placing the said block in walls of buildings and other structures.

From the foregoing description, taken in connection with the accompanying drawings, it is thought that the construction, mode of operation, and advantages of the invention will be readily apparent without requiring an extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, and I therefore reserve to myself the right to make such changes as fairly fall within the scope thereof.

Having described my invention, what I do claim, and desire to secure by Letters Patent, is—

1. A press for molding plastic material provided with side rails or tracks and a central rail or track, a mold adapted to travel upon the tracks to and from the press.

2. A press, having side rails, and a central or supplemental rail and supports for the rails, a reversible mold adapted to travel at an angle to and upon the said rails to and from the press.

3. A press provided with side and central tracks and a movable mold adapted to travel to and within the press.

4. A press having side tracks and a central track, a mold adapted to be moved upon the tracks and means for elevating the mold within the press.

5. A press provided with side and central tracks and a traveling mold adapted to be moved to and from the press at an angle to the rails.

6. A press provided with side and central tracks, a reversible mold adapted to travel upon the tracks and means for raising and lowering the mold.

7. A press provided with side tracks and a central track, a mold having wheels secured thereto and means for lowering the mold and for conveying the mold from the press.

8. A press provided with side and central tracks, a mold adapted to be moved to and from the press, means for raising and lowering the mold, a receiving-table and means for raising and lowering the table.

9. A press having tracks, a traveling re-

versible mold, means for raising and lowering the mold, a movable table for receiving the compressed finished block and means for raising and lowering the table.

- 5 10. A press provided with side and central tracks, a traveling reversible mold, means for raising and lowering the mold, a table and means for raising and lowering the table.

In testimony whereof I have signed my name to this specification in the presence of 10 two subscribing witnesses.

CHARLES K. LAMBIE.

Witnesses:

W. J. LINWOOD,
T. D. LIEB.