No. 816,542. PATENTED MAR. 27, 1906.

R. EDMONDSON.

MACHINE FOR MANUFACTURING SOLID CONCRETE BUILDING BLOCKS OR VENEER BLOCKS.

APPLICATION FILED SEPT. 7, 1904.

2 SHEETS—SHEET 1.

Fig. 1.

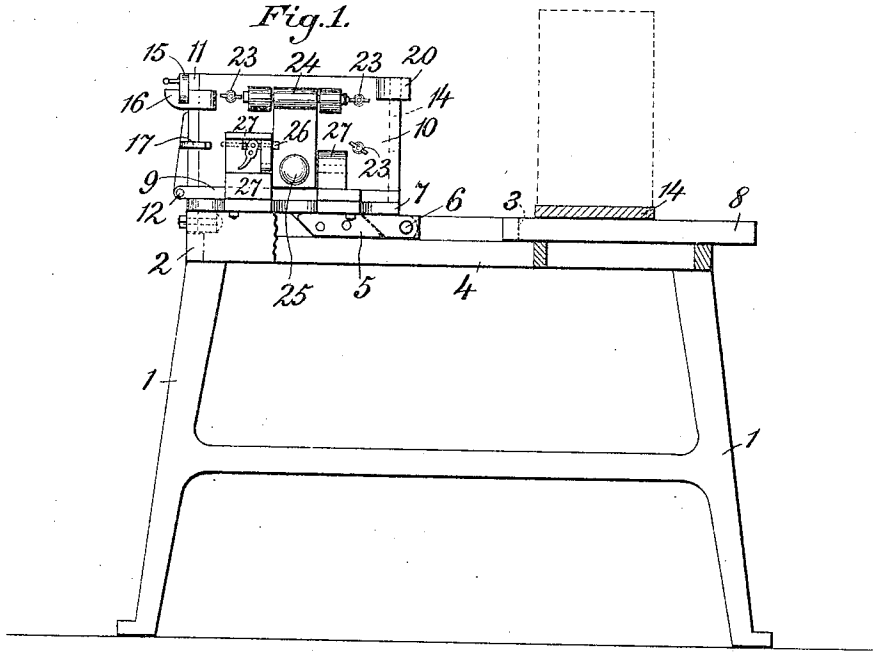
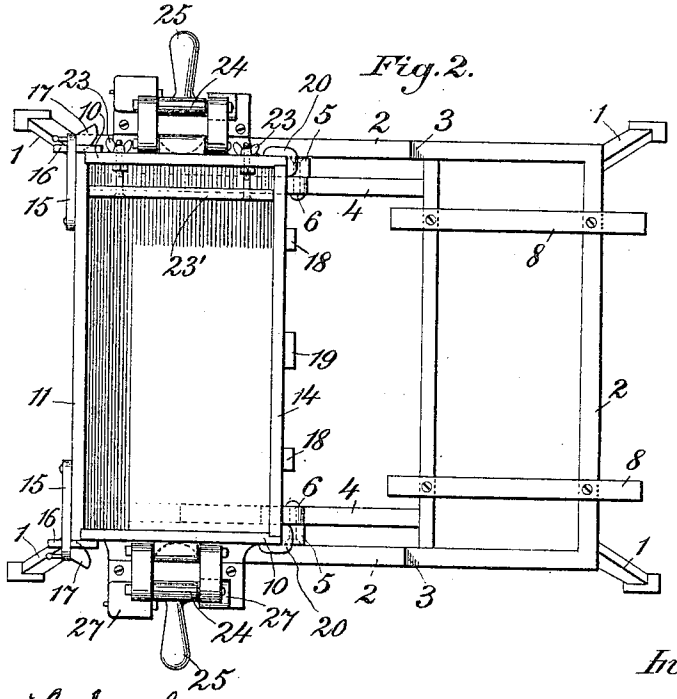


Fig. 2.



Witnesses:

R. C. Railsback

Geo. G. Feldman

Inventor:

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Fig. 3.

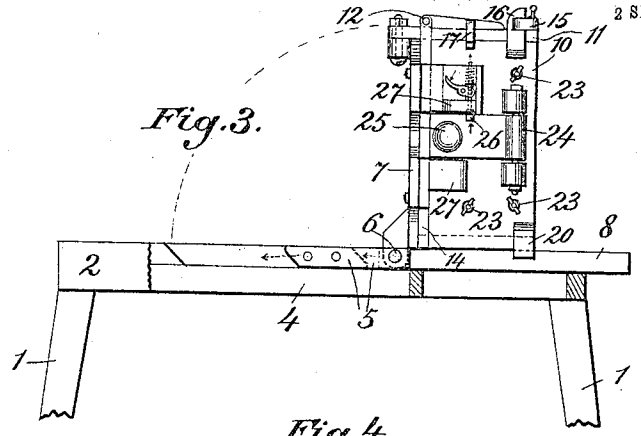


Fig. 4.

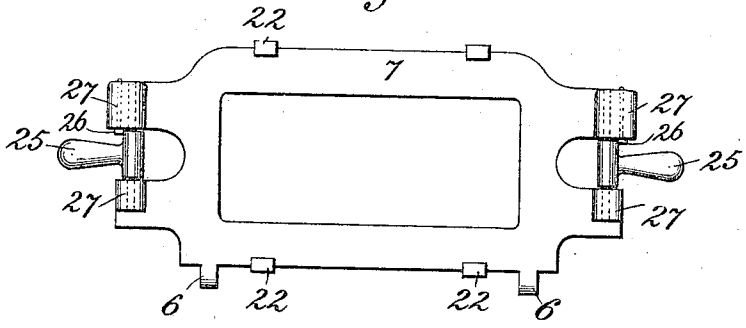
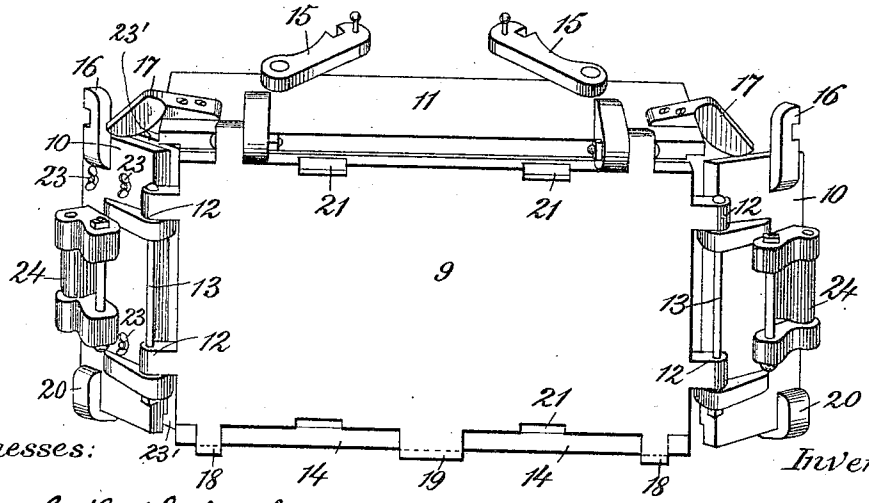


Fig. 5.



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UNITED STATES PATENT OFFICE.

ROBERT EDMONDSON, OF SOUTH BEND, INDIANA.

MACHINE FOR MANUFACTURING SOLID CONCRETE BUILDING-BLOCKS OR VENEER-BLOCKS.

No. 816,542. Specification of Letters Patent. Patented March 27, 1906.

Application filed September 7, 1904. Serial No. 223,807.

To all whom it may concern:

Be it known that I, ROBERT EDMONDSON, a citizen of the United States of America, residing at South Bend, St. Joseph county, in the State of Indiana, have invented certain new and useful Improvements in Machines for Molding Solid Concrete Building-Blocks and Artificial Stone, of which the following is a specification.

My present invention relates to improvements in machines for molding solid concrete building-blocks or veneer-blocks.

The principal object of my invention is to provide a cheap, simple, and efficient machine for molding a thin, solid, concrete block suitable for facing old walls or rough brickwork. Size of blocks to be sixteen or eighteen inches long by eight or nine inches high, about four inches thick, known as "veneer-blocks."

This machine is so constructed and arranged in opening and closing as to save time; also, by changing one side or end the design or shape of block will be changed at pleasure.

The same machine will make straight blocks, corner-blocks, and half-blocks. It is so arranged as to make eight, ten, twelve, fourteen, sixteen, eighteen inch blocks.

My invention consists of an upright framework to support a mold-box that is clamped to a carriage that slides to back part of framework and allows the mold-box to roll over on side and deposit the finished block upon two bars on back part of framework, then slide back to front of framework to place of beginning.

Similar reference-numerals in the accompanying drawings indicate like parts throughout the views.

Figure 1 is a view of machine in vertical section, taken from end of mold-box and side of framework, showing finished block on bars at back of framework in dotted lines and mold-box in place at front; Fig. 2, a plan view of mold-box in place ready for work; Fig. 3, a vertical section of machine, showing mold-box on side ready to open. Fig. 4 is carriage, showing fastenings for mold-box and handles, also hinges to fasten to framework. Fig. 5 shows mold-box on side with three sides open, also movable side and front side, hinges to hold top and end sides to front side.

The support for the operating mechanism consists of an upright metal frame having four legs No. 1, a rigid top No. 2, cut away at No. 3, and two rigid horizontal bars extending part way back No. 4, two bars about half the length No. 5, clamped to No. 4, made to slide backward and forward, hinged at No. 6 to carriage No. 7, two rigid horizontal bars extending from middle of framework to back at No. 8 to hold the movable side with block.

The mold-box consists of a front side No. 9 a top side No. 11, two end sides Nos. 10 10, a movable side No. 14, hinges at No. 12, and movable bolts at No. 13. Top side No. 11 is fastened at Nos. 15 and 16. Top side is opened by a slanting piece at No. 17. A small lug at each end of front side and a larger one in middle holds the movable side in place, (shown at Nos. 18 19;) also small lug on end sides for same purpose No. 20; notches cut in edge of front side at No. 21; corresponding lugs in carriage to fit same at No. 22; four holes in each of the end sides with bolts running through them fastened to plate on inside of mold-box, said plate to move with end sides to shorten the length of blocks. Said bolts have nuts on the inside and thumb-screws outside at No. 23. The end sides are opened and closed by movable handles No. 25. Three hinges in one hold the handles in place No. 24. Handles are locked when closed by a spring-bolt No. 26. Handles are fastened to carriage at No. 27. Carriage is held to mold-box by lugs notches Nos. 21 22.

The operation and manner of employing my invention thus described are stated as follows: Mold-box is closed in place at front end of framework, as shown in Fig. 1. Latches No. 15 pressed down in place. The operator now fills the mold-box with about two inches of richer concrete for the face of block, then fills up mold-box with coarser kind for the back of block, then tamps down to place, smooths even with top of mold-box, takes hold of handles on ends, pushes the mold-box to middle of framework, lifts up on handles until mold-box rolls over on side, as shown in Fig. 3, then lifts up latch on top side No. 15, presses thumb on No. 26, presses handles together, then pulls mold-box to front of framework, presses handles back to place, allows mold-box to roll back to front of framework, same as at the beginning. When it is desired to make corner-blocks, change one end and one side of mold-box by removing long bolts No 13 and replace sides to suit. All sides are made interchangeable.

Having thus described my invention and

manner of operating, what I claim as new, and desire to secure by Letters Patent, is—

1. In a machine for molding building-blocks and artificial stone, a combination of the main frame, a mold-box consisting of a front side, a top side, two end sides hinged to the front side, a removable side opposed to the top side, and means for holding sides in place, as set forth.

2. In a machine for molding building-blocks and artificial stone, the combination of the main frame, a mold-box clamped to a carriage mounted on the main frame to support the mold-box, in its upset position, as set forth.

3. In a machine for molding building-blocks and artificial stone, the combination of the main frame, a mold-box clamped to a carriage, said carriage hinged to short movable bars, sliding backward and forward on main frame, as set forth.

4. In a machine for molding building-blocks and artificial stone the combination of the main frame, a mold-box, a carriage, short bars, movable handles on each end of the carriage, hinged to end sides of mold-box, as set forth.

5. In a machine for molding building-blocks and artificial stone, the combination of the main frame, a mold-box clamped to a carriage, said carriage mounted on main frame, hinged to short bars, sliding backward and forward on main frame, movable handles on each end of carriage, hinged to end sides of mold-box, a movable plate on inside of the mold-box fastened to end side of mold-box for shortening the blocks, as set forth.

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

ROBERT EDMONDSON.

Witnesses:
RICHARD C. RAILSBACK,
GEO. G. FELDMAN.