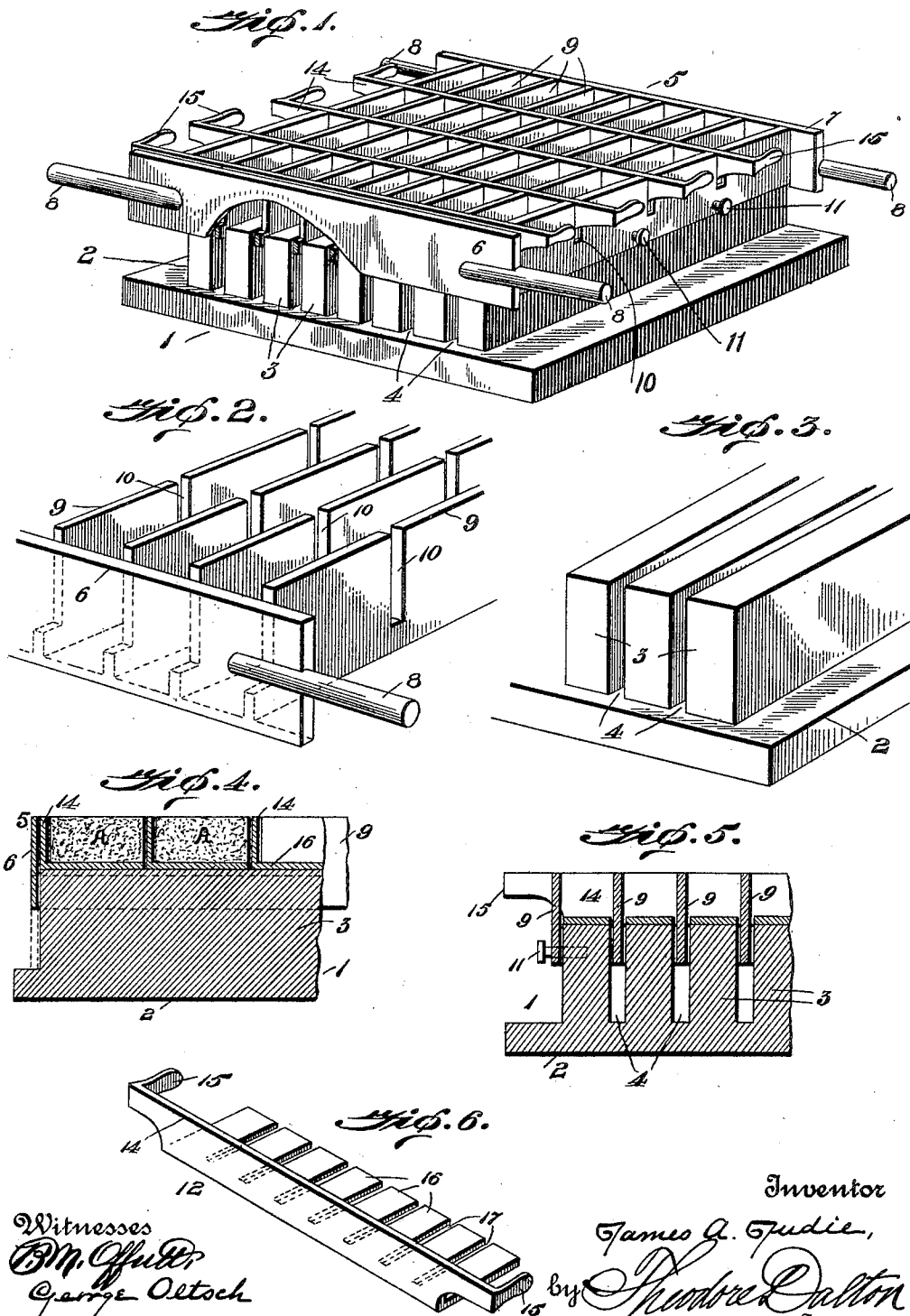


No. 818,452.

PATENTED APR. 24, 1906.

J. A. JUDIE.
MOLD FOR BRICKS.
APPLICATION FILED AUG. 3, 1905.



UNITED STATES PATENT OFFICE.

JAMES A. JUDIE, OF SOUTH BEND, INDIANA.

MOLD FOR BRICKS.

No. 818,452.

Specification of Letters Patent.

Patented April 24, 1906.

Application filed August 3, 1905. Serial No. 272,606.

To all whom it may concern:

Be it known that I, JAMES A. JUDIE, a citizen of the United States, residing at South Bend, in the county of St. Joseph and State of Indiana, have invented new and useful Improvements in Molds for Bricks, of which the following is a specification.

This invention relates to molds for bricks, and more especially cement or concrete bricks.

The object of the present invention is to provide a mold of this character with certain novel features of construction and arrangement of parts, enabling the molding of a large number of bricks at one filling and facilitating the removal of the bricks after they have been formed; and with these and other objects in view the invention consists in the combination and operative aggroupment of parts, all as will be more fully described hereinafter, illustrated in the accompanying drawings, and finally pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of the mold with the parts in their relative positions and embodying all the features of my invention. Fig. 2 is a perspective view of a portion of the frame that forms the compartments for the plastic material. Fig. 3 is a perspective view of a portion of the base or bed plate of the mold. Fig. 4 is a vertical section of a portion of the mold, taken on a line parallel with the partitions of the mold-frame. Fig. 5 is a vertical section of a portion of the mold, taken on a line transverse to the partitions of the mold-frame. Fig. 6 is a perspective view of one of the ejectors and carriers removed.

Making renewed reference to the drawings, wherein similar characters of notation indicate corresponding parts throughout the several views, 1 designates a bed-plate, which comprises the flat base 2 and the upstanding parallel spacing-blocks 3, which are separated from each other, forming slots or ways 4 between the blocks. The thickness of these spacing-blocks corresponds to the width of the brick to be molded, and they serve to keep the partitions of the mold-frame at the requisite distance apart, as will be hereinafter set forth.

5 designates a mold-frame, which consists of two vertical end plates 6 and 7, from the ends of which extend suitable handles 8 for

lifting the frame. Secured to these end plates 6 and 7 are a plurality of partitions 9, each of which has a plurality of transverse slots 10, that extend from the upper edge to about the center of the partitions, and the slots of one partition are arranged in alignment with the slots of the others. At one end of each partition and, as shown in drawings, at the end adjacent to the plate 6 the partitions are cut away at the top to a point about the center thereof, so as to cause the upper end of the partition to terminate short of the lower end thereof, which latter is secured to the plate 6, thus providing a plurality of recesses in which the upright plate of a carrier may fit, as shown in Fig. 1. The partitions are spaced apart a distance equal to the width of the spacing-blocks 3, so that the former may fit into the slots 4 of the bed, and previous to the introduction of the cementitious compound this mold-frame, constituted by the end plates and the partitions, is supported on the bed by suitable bolts 11, which fit in apertures in the end partitions and penetrate the end spacing-blocks of the bed, as shown in Fig. 1, and in this position the lower ends of the partitions depend a slight distance into the slots 4 of the bed.

12 designates the combined ejectors and carriers, each of which consists of an upright end plate 14, the ends of which terminate in right-angular extensions 15, which serve as handles. From the lower edge of this plate 14 extends a plurality of blades 16, which are spaced apart to provide slots 17 therebetween, the blades being arranged at right angles to the plate 14 and affording a bottom or base for each compartment of the mold. The upright plate 14 of the carriers is of such thickness as to snugly fit the slots 10 of the partitions 9, while the slots 17, between the blades 16, straddle the partitions 9, with the free ends of the blades terminating at the edge of the next row of slots in the partitions. Thus when the carriers are fitted into the partitions the upper edges of the plates 14 lie flush with the upper edges of the partitions 9 and divide the partitions into rectangular compartments each of which forms a matrix for a brick. When the carriers are arranged in the mold-frame, the upright plates 14 of the former form the end walls of each compartment, the partitions 9 form the side walls of each compartment, and the blades 16 form

the bottom of each matrix and also constitute supports on which the bricks may be carried after being molded.

In using my improved mold the mold-frame 5 is positioned upon the bed with the lower ends of the partitions 9 slightly depending within the slots 4, and the bolts 11 are inserted to hold it in this position. The carriers 12 are then inserted in the slots 10 of the frame, with the blade 16 resting upon the top of the spacing-blocks 3, as shown in Figs. 4 and 5. After the cement in the compartments has partially dried the bricks may be ejected by removing the bolts 11 and letting the mold-frame 5 drop to the position shown in dotted lines in Fig. 4. The carriers with the bricks thereon may then be lifted from the top of the spacing-blocks 3 and are put away to dry in the usual manner. As the mold-frame 5 drops to the base of the bed the partitions 9 move out of the slot 17 between the blades, leaving one brick upon each blade. The bricks are shown in Fig. 4 at A.

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

1. A mold for bricks comprising a slotted bed-plate, a partitioned mold-frame mounted on the bed-plate with the partitions thereof in the slots of the bed, and a combined ejector and carrier mounted in the mold-frame and dividing the latter into a plurality of matrices.

2. A brick-mold comprising a bed, a mold-frame mounted on the bed and having slotted partitions, and a combined ejector and carrier mounted in the slots of the partitions and forming compartments in which bricks are molded.

3. A brick-mold comprising a slotted bed-plate, and a mold-frame mounted on said bed-plate and having partitions adapted to drop into the slots of the bed-plate and eject the molded brick.

4. In a brick-mold the combination of a bed-plate, a mold-frame mounted on the bed-plate and having partitions provided with slots, and members fitted in the slots of the partitions and dividing the said frame into a

plurality of matrices, said frame being arranged to drop in the bed-plate to eject the molded bricks.

5. The combination of a bed-plate having a plurality of spacing-blocks with a slot between each two blocks, a frame having a plurality of partitions adapted to fit within the slots of the bed-plate and provided with rows of transverse slots, and plates fitted in the slots of the partitions and dividing the frame into a plurality of compartments in which the bricks are molded.

6. A brick-mold comprising a slotted bed-plate, a mold-frame supported on said bed-plate and having partitions adapted to fit in the slots of the bed-plate, said partitions being provided with rows of slots, and a plurality of combined ejectors and carriers each having an upright plate fitted in the slots of the partitions and also having blades arranged to rest on the top of the bed-plate and straddle the partitions, substantially as specified.

7. A brick-mold comprising a slotted bed-plate, a mold-frame having partitions provided with slots mounted on said bed-plate with the partitions in the slots thereof, and carriers having upright portions standing in the slots of the partitions and blades resting upon the top of the slotted bed-plate and forming the bottom of the matrices.

8. In a mold of the class described the combination with a mold-frame having parallel partitions provided with rows of transverse slots, of carriers fitted in the slots of the partitions and having blades straddling said partitions and constituting the bottom of the matrices.

9. A carrier for a mold of the class described comprising an upright plate having spaced blades projecting at right angles from the lower edge of the upright plate.

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

JAMES A. JUDIE.

Witnesses:

DAVID C. GIBSON,
GEORGE OLTSCHE.