

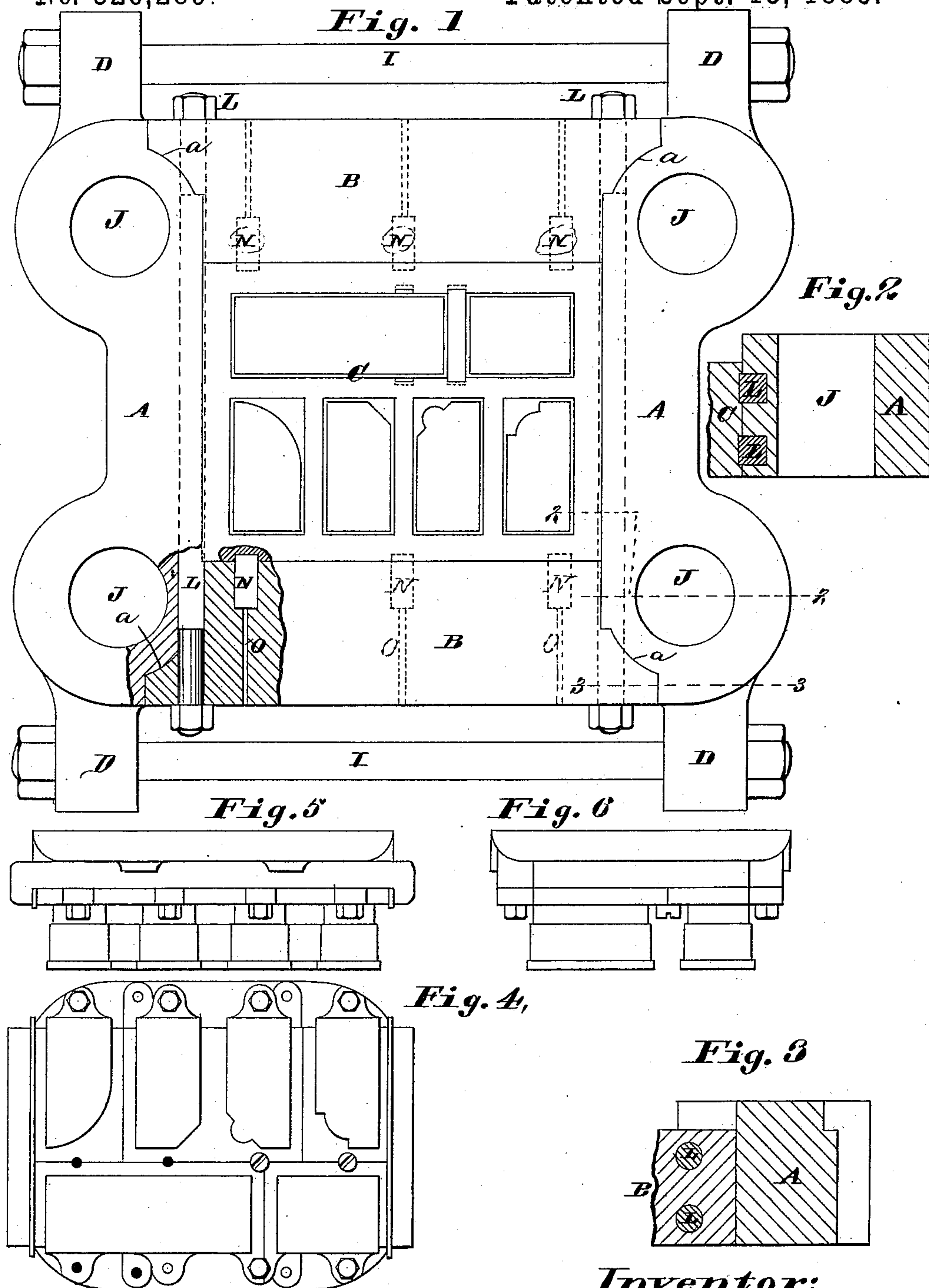
(No Model.)

W. N. GRAVES.

BRICK MACHINE MOLD AND FRAME THEREFOR.

No. 326,289.

Patented Sept. 15, 1885.



Attest:
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UNITED STATES PATENT OFFICE.

WILLIS N. GRAVES, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO
THE HYDRAULIC PRESS BRICK COMPANY, OF SAME PLACE.

BRICK-MACHINE MOLD AND FRAME THEREFOR.

SPECIFICATION forming part of Letters Patent No. 326,289, dated September 15, 1885.

Application filed January 22, 1885. (No model.)

To all whom it may concern:

Be it known that I, WILLIS N. GRAVES, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Brick-Machine Molds and Frames Therefor, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a top view, part in vertical section, of my improved mold and frame. Fig. 2 is a detail vertical section taken on line 2 2, Fig. 1. Fig. 3 is a similar view taken on line 3 3, Fig. 1. Fig. 4 is a bottom view of the upper plunger of a brick-machine. Fig. 5 is a side view of same. Fig. 6 is an end view of same.

My invention relates to an improved form of mold and mold-frame, intended more especially for hydraulic or other large brick-machines; and my invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Referring to the drawings, A represents the side pieces, having shoulders *a* formed at their respective ends, and B the end pieces of the frame. C represents the mold, having one or more compartments, (I have shown it with six), which may be plain, or may have designs in the corners, as represented, to correspond with the designs on the face of the plungers, as shown in Fig. 4, to produce ornamental bricks.

The sides A of the mold have lugs D to receive connecting-bolts I, and they have perforations J, through which pass rods or posts which hold the frame in its place in the machine. The ends B of the frame are formed to fit the sides, as shown in Fig 1, and are tied together by double-ended bolts L, fitting in grooves in the side pieces and mold, as shown in Fig. 2 and the dotted lines in Fig. 1. These rods are preferably square except at their ends, as shown. The mold is held in place by these rods and by blocks N fitting in holes in the end pieces and corresponding holes or depressions in the mold, as

shown in Fig. 1. The end pieces, B, have perforations O, through which an instrument may be inserted to remove the blocks when the mold is taken out.

To remove the mold at any time, it is only necessary to remove one of the bolts I, take the nuts off the bolts L at one end of the mold, and remove the piece B at that end, when the mold can be pulled out, sliding on the rods L, and a new mold or mold with different designs may be inserted in the same manner, and the end piece, bolt I, and nuts replaced.

By my improved construction the molds of such large machines as my invention is intended for can be easily and quickly removed and replaced and at a small expense. The faces of the plungers are made removable, so as to be changed to correspond with different molds.

I claim as my invention—

1. The combination, with the side pieces, A, having the shouldered ends and the bolts I for securing them together, of the end pieces, B, bearing upon the shouldered side pieces, as described, and the bolts L, passed through said end pieces, substantially as set forth.

2. The combination, with the mold-box having longitudinal grooves in its sides, of a frame having correspondingly-grooved side pieces, a removable end piece, and suitable bolts adapted to occupy said grooves and retain the end pieces in place, as set forth.

3. The combination, with the mold-box, having longitudinal grooves in its sides, of a frame having correspondingly-grooved side pieces, a removable end piece, and suitable bolts, square in part for occupying the aforesaid grooves, whereby the mold-box is supported and the removable end piece held in place, substantially as set forth.

4. The combination, with the press-box C, having the longitudinal grooves in the sides thereof, of the frame having correspondingly-grooved side pieces, A, removable end pieces, B, and the double-ended bolts L, made square in part occupying the said

grooves and pressed at their respective ends through the end pieces, B, substantially as and for the purposes set forth.

5. In combination, the mold-box C, having the longitudinal grooves in its sides and notches in its ends, the side pieces A, having corresponding grooves in their inner sides, the end pieces, B, having the blocks N pro-

jecting inwardly therefrom and occupying said notches, and the bolts L occupying said grooves and securing said end pieces, substantially as set forth.

WILLIS N. GRAVES.

In presence of—

GEO. H. KNIGHT,

SAML. KNIGHT.