No. 795,784. PATENTED JULY 25, 1905.

M. J. WELLING.

SEPARABLE MOLD FOR BRICK PRESSES.

APPLICATION FILED NOV. 28, 1904.

Fig 1.

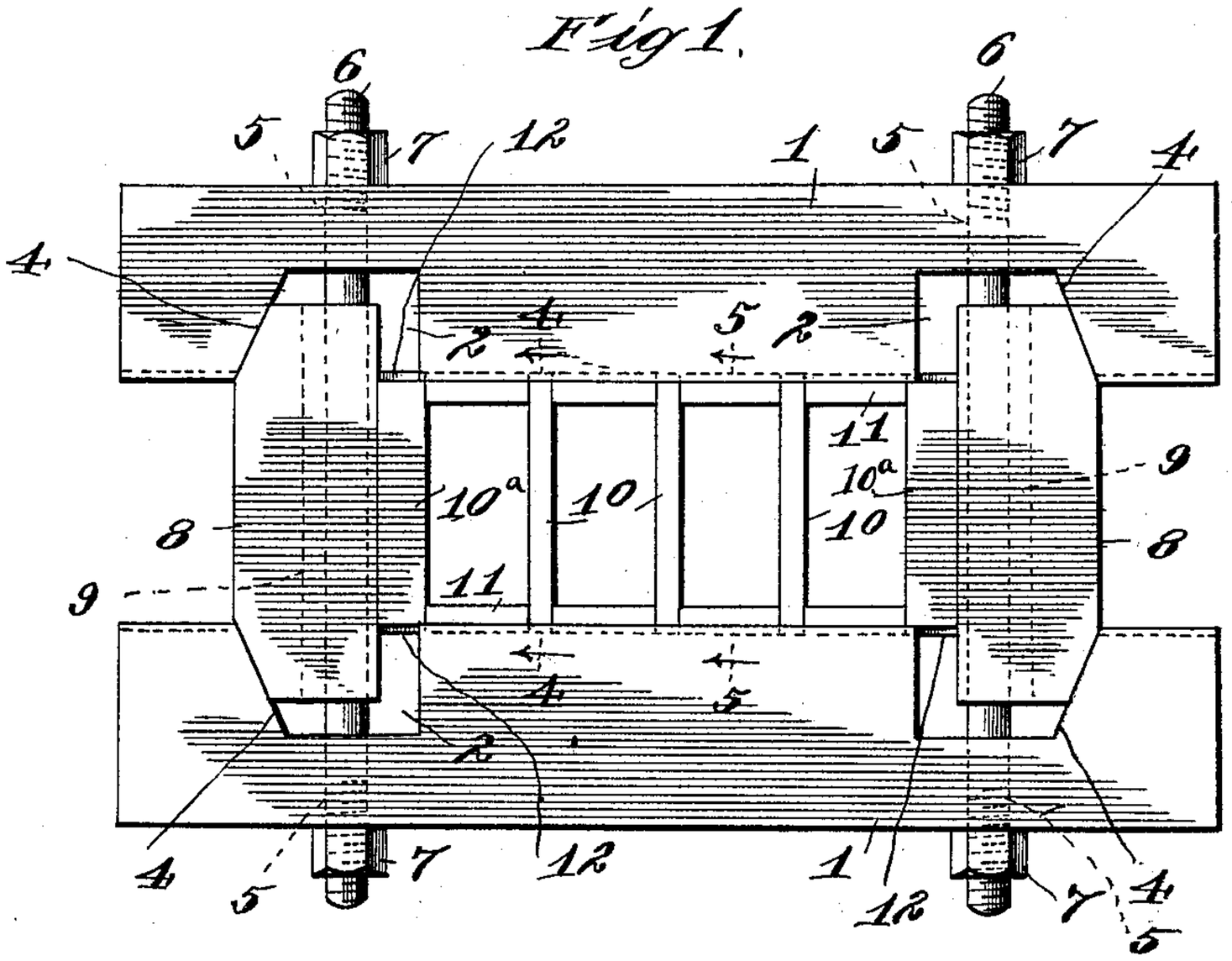


Fig. 2.

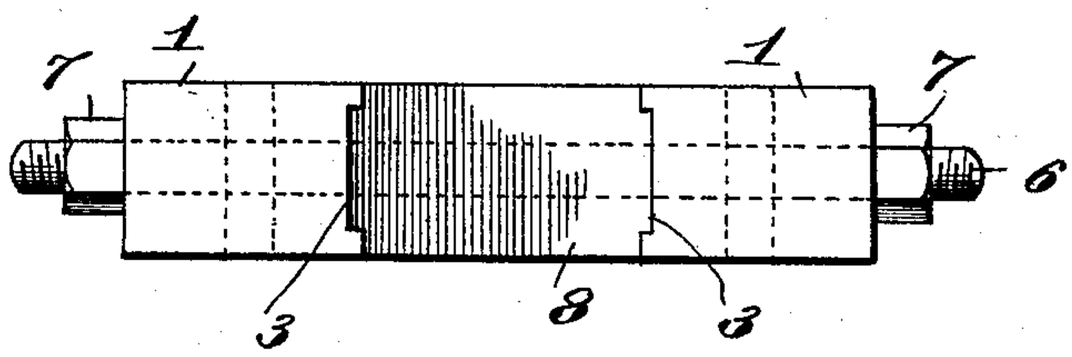


Fig. 3.

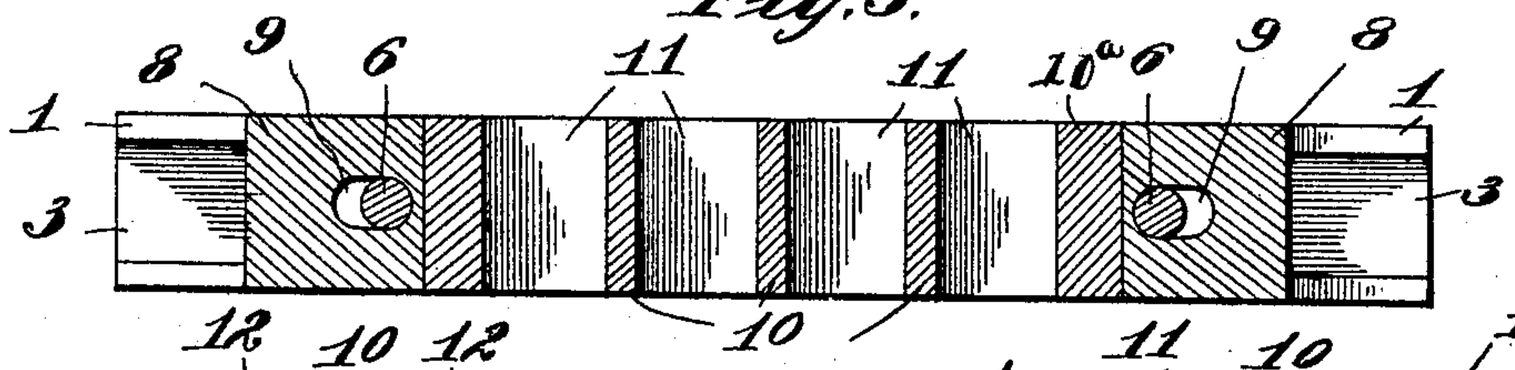


Fig. 4.

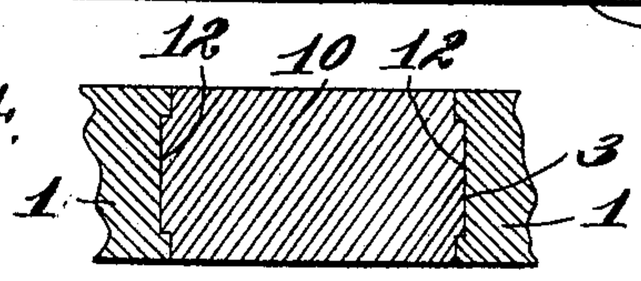
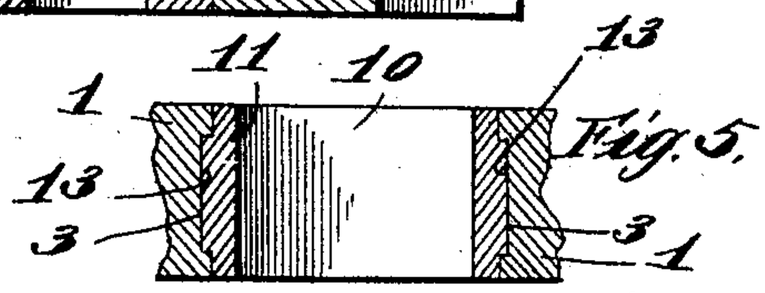


Fig. 5.



Witnesses:

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MATTHEW J. WELLING, OF CHICAGO, ILLINOIS.

SEPARABLE MOLD FOR BRICK-PRESSES.

No. 795,784. Specification of Letters Patent. Patented July 25, 1905.

Application filed November 28, 1904. Serial No. 234,614.

To all whom it may concern:

Be it known that I, MATTHEW J. WELLING, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Separable Molds for Brick-Presses, of which the following is a specification.

This invention relates to an improved sectional or separable mold for brick-presses and to a means for securing the sections of the mold in position, which latter means is adapted to permit of an adjustment to provide for holding sections of different thickness.

In the accompanying drawings, Figure 1 is a top plan view of a separable mold embodying the features of this invention. Fig. 2 is an end view of such mold. Fig. 3 is a longitudinal central section through the mold. Fig. 4 is a detail sectional view on dotted line 4 4 of Fig. 1, and Fig. 5 is a similar sectional view on dotted line 5 5 of Fig. 1.

In the construction of a mold embodying the features of this invention I provide two clamping side bars 1, identical in construction and having in their adjacent faces coinciding openings 2 and channels 3. The end walls of the openings 2 form inclined shoulders 4, and the side bars 1 are provided with coinciding openings 5 for receiving the threaded rods 6, upon both ends of which rods nuts 7 are turned.

Clamping end pieces 8 are adapted to extend between the clamping side bars 1, the ends of said end pieces lying within the openings 2 of said side bars, the outer corners of the end pieces 8 being chamfered at an angle corresponding with that of the inclined shoulders 4. The clamping end members 8 have a longitudinal opening 9 for receiving the screw-threaded rods 6, said opening being elongated transversely of said end members.

The molds proper are made up of mold-facing bars 10, 10^a, and 11, the bars 10 10^a for the sides of the molds, the bars 11 for the ends. The side facing-bars 10 10^a are provided at each of their ends with a tongue 12, adapted to lie within the channels 3 in the inner faces of the side clamping bars 1, while the end facing-bars 11 have a corresponding rib 13 adapted to lie within said channel.

In use the facing-bars 10, 10^a, and 11 for the molds proper are put in position between the side clamping-bars 1 and the clamping end pieces 8. Screw-threaded rods 6 are then placed within the openings 5 in said side clamping-bars and the openings 9 of said end clamping members and nuts 7 turned upon the screw-threaded portions of said rods. Tightening the nuts draws the side clamping-bars 1 together and forces the end clamping-bars 8 toward one another. The inclination of the shoulders 4 is such that the inward movement of the end clamping-bars is substantially the same as that of the side clamping-bars. In order to provide for taking up wear upon the facing members 10, 10^a, and 11 and for the reduction of the thickness of said members by grinding, the facing-bars 10^a at the ends of the set of molds are made somewhat thicker than the facing-bars 10 between the molds, said bars 10^a being provided in various thicknesses. When the abrasive action of the material operated upon makes it necessary to grind off the facing-bars, the ends of the side facing-bars 10 10^a are also ground off in order to retain a regular and uniform size of the bricks.

It is clear that the embodiment herein shown of this invention may be changed in various ways without departing from the spirit and scope of said invention, wherefore I desire to have it understood that I do not wish to limit myself to the precise details herein shown and described.

I claim as my invention—

1. In a separable mold, in combination, clamping side bars and end pieces having inclined surfaces on the one adapted to engage with corresponding surfaces on the other, said end pieces having longitudinal openings extending therethrough of elongated cross-section; screw-threaded rods extending loosely through said side bars and through the openings in said end pieces; nuts on said rods; and mold-facing bars adapted to be clamped between said side bars and end pieces.

2. In a separable mold, in combination, clamping side bars having coinciding openings in their inner faces, one wall of each of said openings being inclined; clamping end pieces having chamfered ends adapted to lie upon the inclined walls of said openings; side

facing-bars adapted to be clamped between said side bars and end pieces to form a mold, the side facing-bars projecting to a point between opposite openings in said clamping side arms, the inner sides of said clamping end pieces being arranged to bear upon said side facing-bars; and means for moving said clamping side bars toward each other to force all of said members together.

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