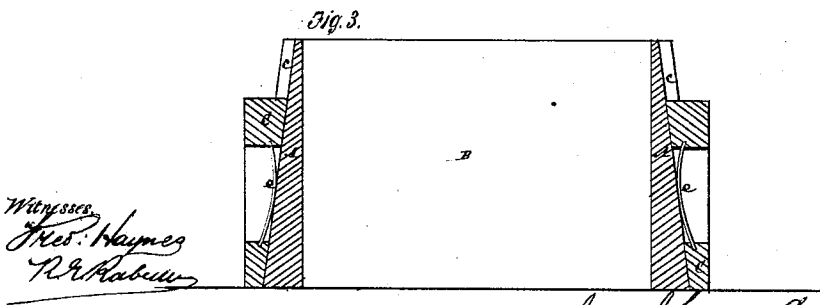
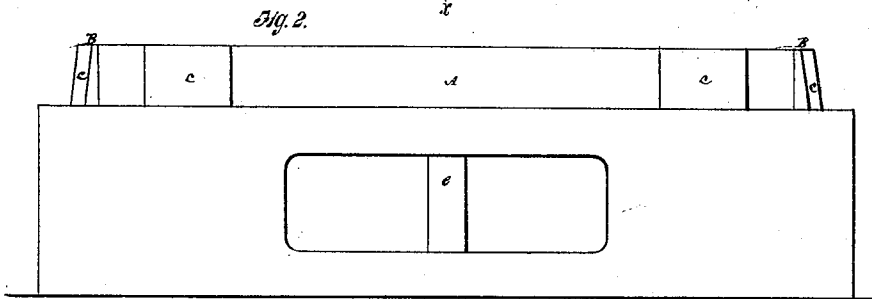
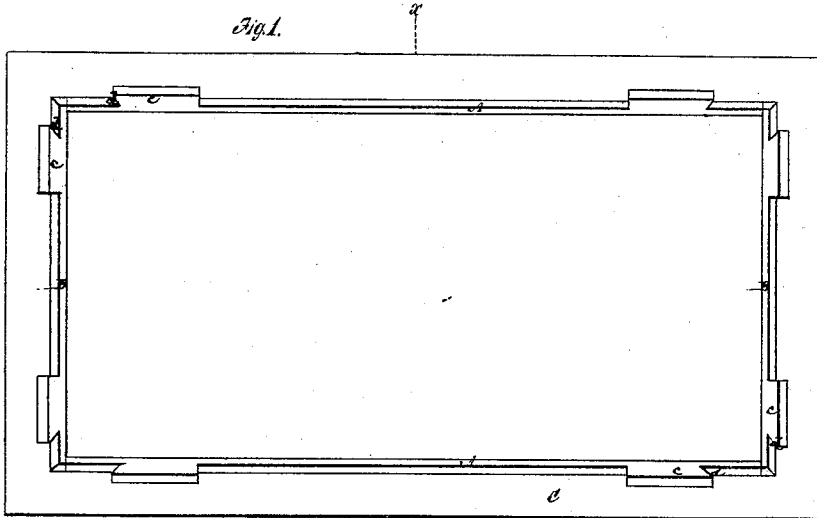


A. M. Alpin,

Brick Mold.

No. 101,896.

Patented Apr. 12, 1870.



Witnesses
J. H. Hayes
R. R. Roberts

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United States Patent Office.

ANGUS McALPIN, OF SAVANNAH, GEORGIA.

Letters Patent No. 101,896, dated April 12, 1870.

IMPROVEMENT IN BRICK AND OTHER MOLDS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern :

Be it known that I, ANGUS McALPIN, of Savannah, in the county of Chatham and State of Georgia, have invented a new and useful Improvement in Brick and other Molds, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a plan of a mold constructed in accordance with my improvement;

Figure 2, a side view of the same; and

Figure 3, a transverse section thereof through the line *z z* in fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention, as applied to the production of brick, is to facilitate the removal of the brick from the mold without injuring or impairing the shape of the brick; and

The invention consists in a peculiar construction of a mold, having movable sides and ends to allow of the separation of the mold from the brick, substantially as hereinafter described.

Referring to the accompanying drawing—

A A represent the movable sides and B B the movable ends of the mold. These sides and ends are made perpendicular and flat on their inner sides, and meet at right angles to constitute the mold proper. On the outer surfaces said sides and ends are beveled, so as to be thicker at their bottoms than at their tops, as more clearly seen in fig. 3. Said sides and ends are made movable or detached from each other, to allow of their separation from the brick by enlarging the area of the mold. When shut in or closed to make brick, they come in contact, or thereabouts.

Each side A and end B is provided down its exterior surface with dovetailed slides or projections, *c*, made to fit dovetailed grooves, *d*, formed on the interior of a stiff band or case, C, which is made to fit accurately the mold proper, as formed by the sides A A and ends B B.

This band or case C, that may be said to form part of the improved or complete mold, is of less height or depth than the mold proper, as seen in figs. 2 and 3, and is so fitted around the latter as that, when the mold proper is closed, said band rests with its lower

edge flush, or thereabouts, with the lower edge of the mold proper.

Springs, *e*, may be arranged between the mold and its band to produce a friction between the two, which will prevent any accidental slip of the one over, through, or out of the other.

The band C being rigid, and its interior faces and the exterior faces of the sides A A and ends B B of the mold proper being correspondingly inclined planes, in gear or connection with each other by the dovetailed slides *c* and grooves *d*, it will be obvious that when the band C is moved so as to bring its upper edge flush with the upper edges of the sides A A and ends B B, or mold proper, the area of the mold will be increased and its sides and ends withdrawn squarely and evenly from each other and from the brick which has been molded by them, thus leaving the brick free to be removed. The distances which the sides and ends of the molds are thus drawn from the brick depend upon the angle of the inclined planes of the side or sides and ends and band.

This improved mold may be worked either by hand or by machinery. When operated by hand the band C should be furnished with convenient handles, and when the mold is filled with the pressed clay it is inverted and the sliding band C pressed down even with the top of the mold proper, and, the brick being liberated, the mold is withdrawn.

When operated by machinery, the band C is moved vertically up and down by means of machinery without inverting the mold.

Both the mold proper and its outer band or case may be made of any suitable material or materials, and of any desired size or shape; also, other means may be employed than those described for expanding the mold.

I do not claim, broadly, an expanding mold, as such has been heretofore used; but

What I do claim, and desire to secure by Letters Patent, is—

The dovetails *c*, constructed and arranged on the tapering sides and ends A B, and case or band C, as herein described, for the purpose set forth.

ANGUS McALPIN.

Witnesses:

GEORGE W. MOORE,
LEVI S. RUSSELL.