

S. McLAUGHLIN.
BRICK.

No. 64,994.

Patented May 27, 1867.

Fig. 1.



Fig. 2.

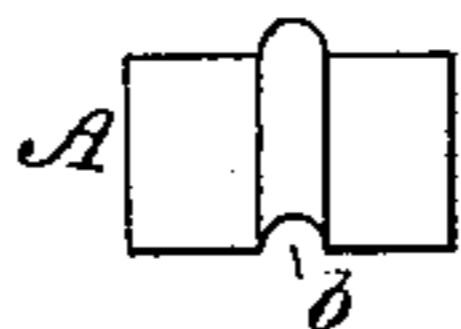


Fig. 4.

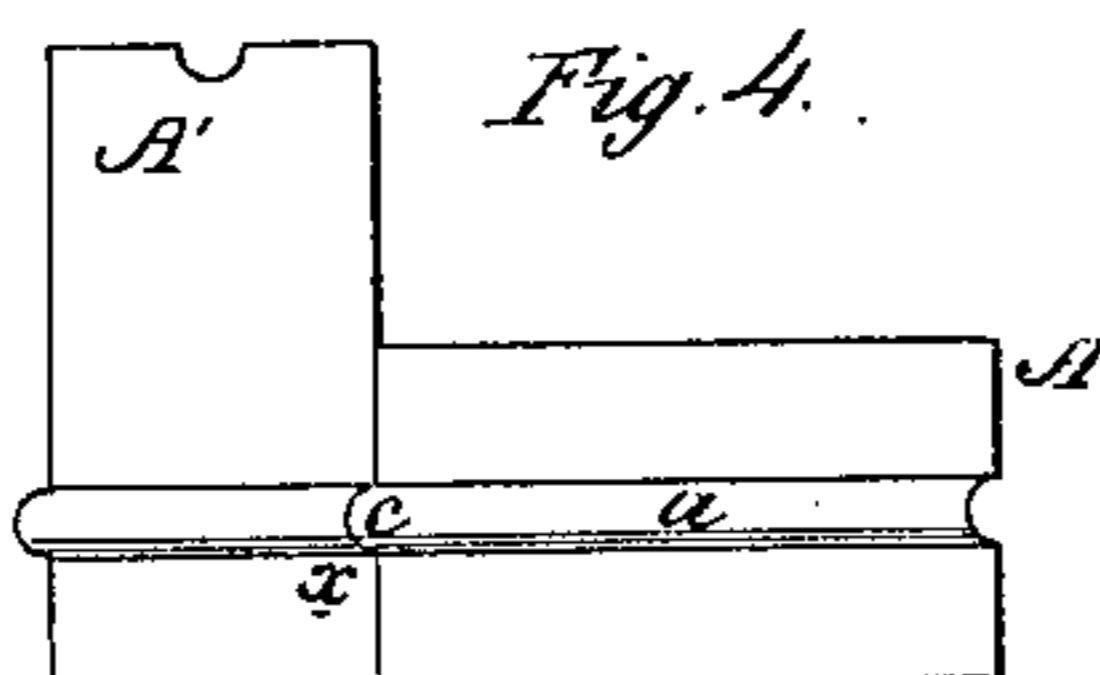


Fig. 3.

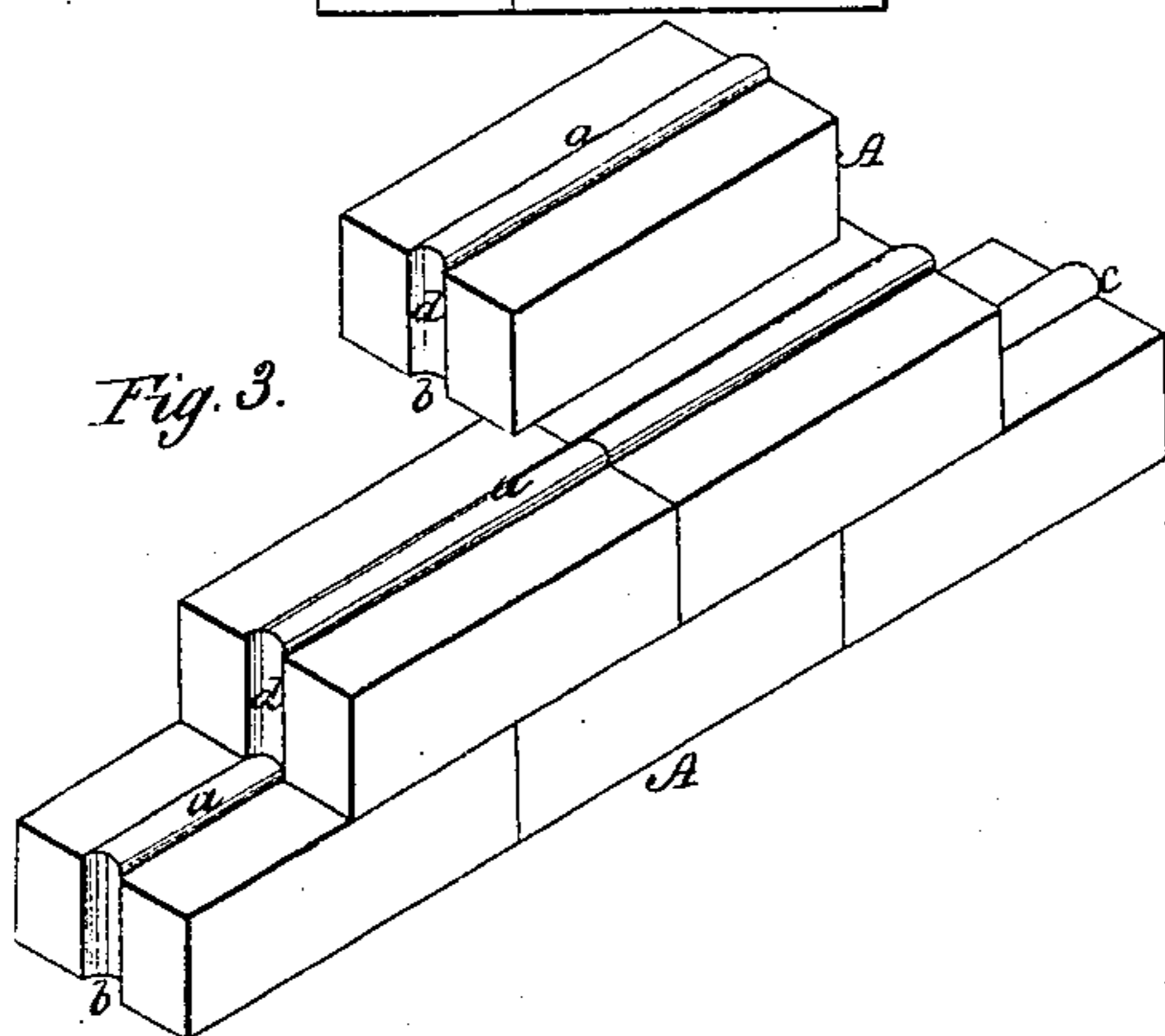
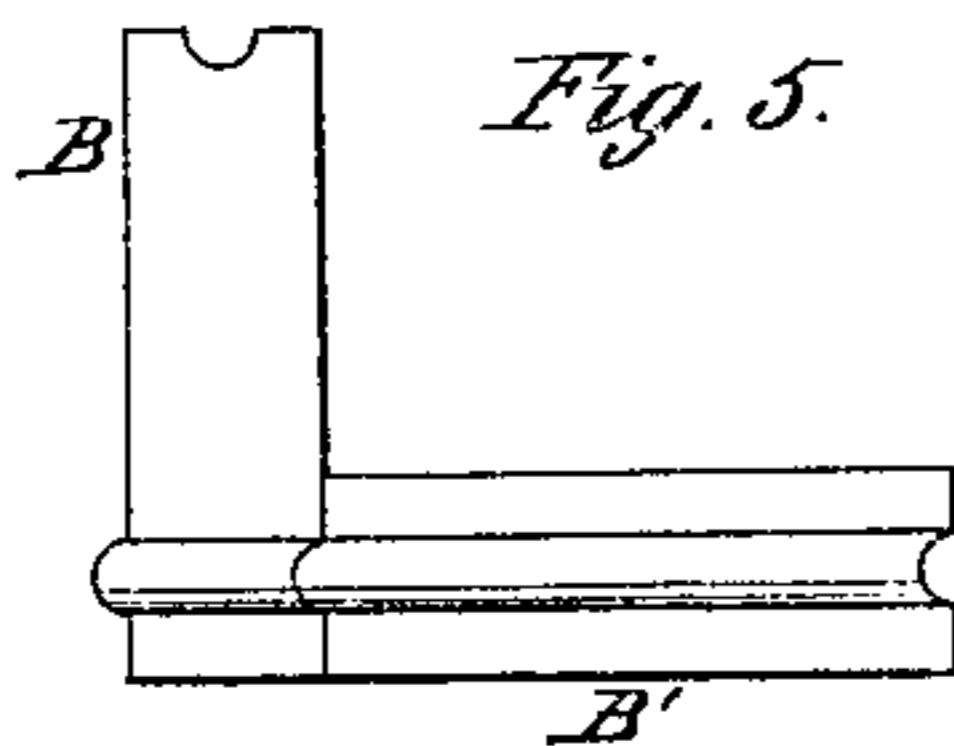


Fig. 5.



Witnesses:
Wm Albert Steel
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By his Atty
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United States Patent Office.

SAMUEL McLAUGHLIN, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 64,994, dated May 21, 1867.

IMPROVED BRICK.

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, SAMUEL McLAUGHLIN, of Philadelphia, Pennsylvania, have invented an Improved Brick; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention consists of bricks having ribs and grooves adapted to each other, as described hereafter, so that a wall built of these bricks may be stronger and more permanent than a wall of ordinary bricks.

In order to enable others to make my invention, I will now proceed to describe the manner of carrying it into effect. On reference to the accompanying drawing, which forms a part of this specification—

Figure 1 is a plan view of my improved brick.

Figure 2, an end view.

Figure 3, a perspective view of a number of the improved bricks.

Figure 4, a plan view of the improved bricks, as arranged for the corner of a wall; and

Figure 5, the same with the bricks on edge.

On reference to figs. 1, 2, and 3, A represents the improved brick, on the upper surface of which, midway, or thereabouts, between its opposite edges, is formed a longitudinal rib, *a*, and on the under surface a longitudinal groove, *b*, corresponding, as regards form and position, to the rib above. On one end of the brick is a vertical rib, *c*, and at the opposite end a vertical groove, *d*, corresponding, as regards form and position, to the said rib. When bricks thus constructed are laid as shown in fig. 3, so that the longitudinal rib of one brick shall enter the grooves of the bricks above, and the rib at the end of one brick shall fit into the groove of the adjacent brick, the series of bricks are so intimately bound together that no lateral displacement of the bricks or distortion of the wall can take place under circumstances which would disturb the integrity of a wall of ordinary bricks, hence my improved bricks are especially applicable to the construction of furnace walls, which, owing to the great heat to which they are subjected, are liable to a rapid deterioration. For the corner of a wall, as seen in fig. 4, it is necessary that the brick A' should have on one edge a vertical groove at *e*, in such a position as to admit the vertical rib *c* at one end of the adjacent brick A. By this arrangement the corner is rendered most substantial. A very thin and light, but rigid, wall may be made by laying the bricks on edge, as shown in fig. 5, the ribs and grooves being in this case on the edge of the bricks, instead of on the flat surface of the same. It will be understood that the grooves may be above and the ribs below.

I claim as my invention, and desire to secure by Letters Patent—

Bricks having ribs and grooves arranged substantially as and for the purpose herein set forth.

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

SAMUEL McLAUGHLIN.

Witnesses:

JOHN WHITE,

W. J. R. DELANY.