J. M. Deitz,

Constructing Walls,

No. 81,350, Patented Aug. 25, 1868.

Fig. 1

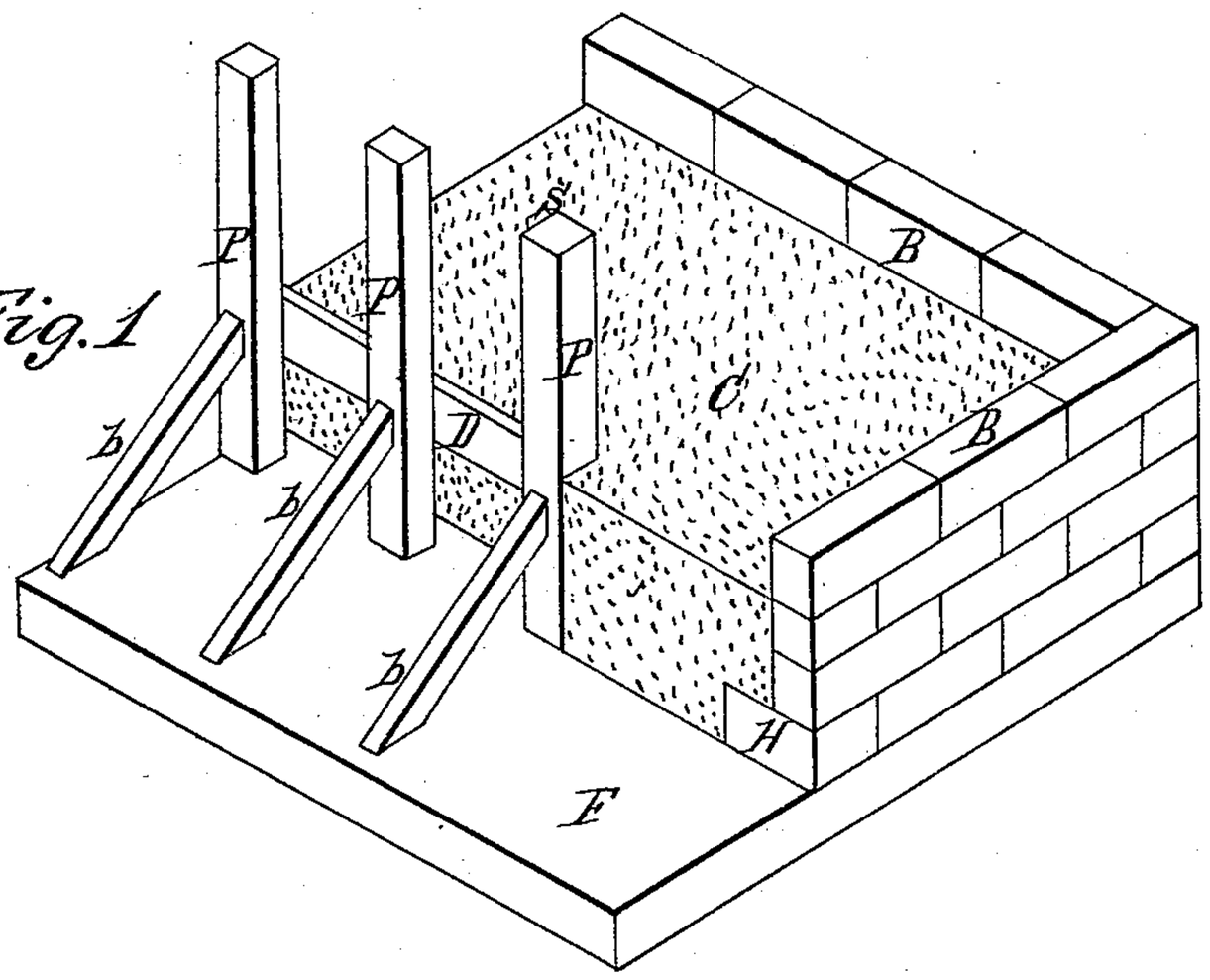


Fig. 2

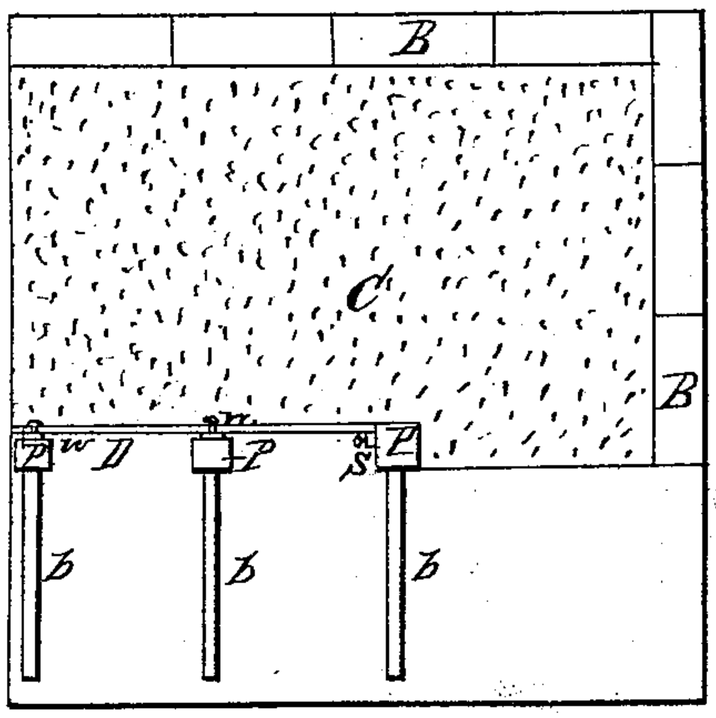
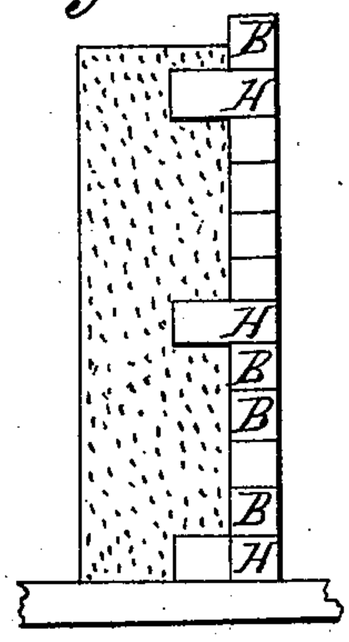


Fig. 3



Witnesses;
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United States Patent Office.

JOHN M. DEITZ, OF BERNE, NEW YORK, ASSIGNOR TO HIMSELF, C. T. BUSH, AND SANFORD & SISSON.

Letters Patent No. 81,350, *dated August* 25, 1868.

IMPROVED BRICK WALL.

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, JOHN M. DEITZ, of Berne, in the county of Albany, in the State of New York, have invented certain new and useful Improvements in Building Brick Walls; and I do hereby declare that the following is a full, clear, and exact description of the construction of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is an isometrical perspective view.

Figure 2, a horizontal plan of the same.

Figure 3, a vertical section of wall.

The object of this invention is to combine brick and concrete, in the building of walls, in such a manner as to make a strong and durable wall, and to cheapen the expense of the same, by the saving in the number of bricks used.

I will proceed to describe the construction of walls according to my improved mode.

In the accompanying drawings, similar letters of reference refer to corresponding parts in the several figures.

The foundation having been laid, I lay thereon one course of brick, H, transversely to the course of the wall, and upon that, another course longitudinally to said course of wall, and so on for three courses, or more, if found practicable, and then another transverse course of "headers."

After laying up a few courses of brick, I place a guide-board, D, inside the courses of brick, and at a distance therefrom equal to the required thickness of the wall, which board is held in place by the stanchions P P P′ and braces *b b b*.

The space between the board D and the brick is then filled with soft concrete, C, to the height of the last course of brick. A course of "headers" is then laid, with the inside end resting upon the concrete.

When the concrete is "set," or becomes sufficiently rigid to retain its form, the guide-board is raised till its lower edges are nearly as high as the upper surface of the concrete, and a few more courses of brick are laid, as before, so as to receive another layer of concrete. This process is carried on till the wall is as high as desired.

In order to form a square corner where the wall turns, the stanchion P′ is provided with the cleat *s*, placed on the inside, so as to allow the end of the guide-board D to come square against the stanchion P′; and in order to loosen the guide-board, when it is desired to raise it, I place between the stanchions P P and the guide-board D the small thin strips W W, which may be readily removed, and thus the board loosened.

Having thus described my improved mode of building, what I claim as my invention, and desire to secure by Letters Patent, is—

In the construction of walls composed of brick and concrete, the combination and arrangement of the bricks B B and H H, concrete C, stanchions P P P′, braces *b b b*, cleats W W and *s*, and guide-board D, substantially as and for the purposes herein set forth.

JOHN M. DEITZ.

Witnesses:

CHESTER COOK,

ORLANDO BOUTON.