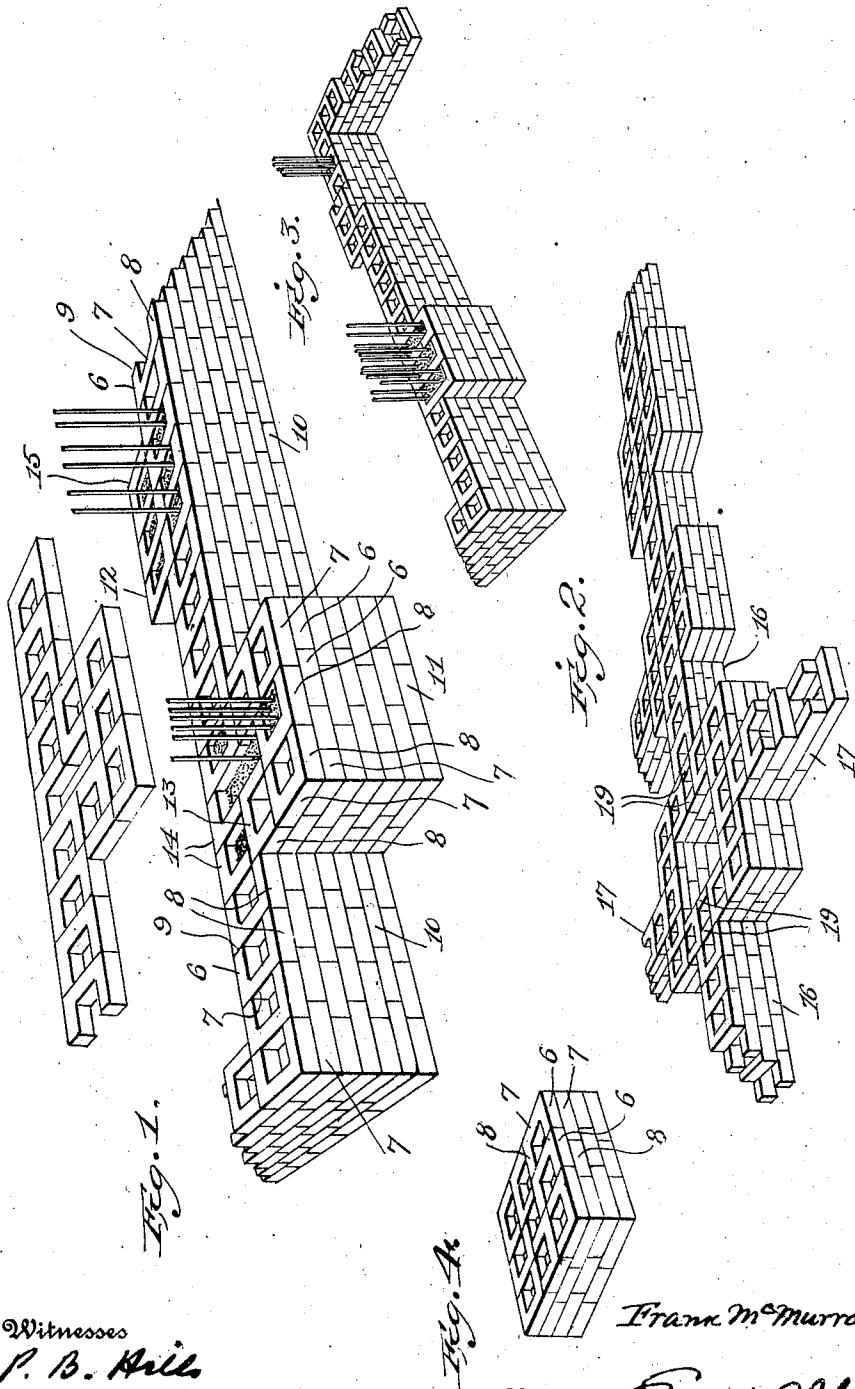


F. McM. SAWYER.
WALL CONSTRUCTION.
APPLICATION FILED DEC. 6, 1910.

1,009,441.

Patented Nov. 21, 1911.



Witnesses
P. B. Hills
B. J. Bridges

Fig. 4.

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Specification of Letters Patent. Patented Nov. 21, 1911.

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To all whom it may concern:

Be it known that I, FRANK MCM. SAWYER, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Wall Construction, of which the following is a specification.

This invention relates to improvements in wall constructions and has for its object to provide a wall with pilasters formed with artificial blocks or bricks, which will present smooth inner and outer surfaces and vertical ventilating passages from the bottom to the top of said wall including the pilasters.

Another object is to form pilasters of different proportions connected to the wall in such manner, that they will be securely bound thereto and form a part thereof.

Further objects are to form pilasters in the corners of intersecting walls, also to form them on opposite sides of a wall, and to form columns and piers.

These objects are attained with the use of particularly formed blocks or bricks, which allow of their assemblage to secure the particular formation of walls and pilasters.

Having briefly outlined the invention, a detail description of the same follows taken in connection with the accompanying drawings in which,

Figure 1, is a perspective view of one form of the invention showing a wall having pilasters of different depths projecting therefrom. Fig. 2, is a similar view of a second form, showing the pilasters arranged in the corners of intersecting walls and also extending from both sides thereof. Fig. 3, is a similar view of a further modification, and Fig. 4, is a view of a pilaster or column detached from the wall.

The same reference numerals indicate like parts in all of the figures.

The constructions shown are principally formed with U-shaped blocks or bricks, each brick comprising a back and two legs and having three unbroken surfaces 6, 7, and 8, and a recessed side 9, and as shown in Fig. 1, the wall comprises the straight section 10 having projecting therefrom the pilasters 11 and 12.

The brick in the straight section are arranged with their sides 7 across the recessed sides 9 of the adjacent block, and in alternate layers or courses the bricks are reversed, and in every course the backs of the

bricks which are formed by the sides 7, are placed upon each other, thereby forming continuous vertical passages from the bottom to the top of the wall.

The pilaster 11 is formed with the same shaped bricks, placed in such manner, that the sides 6 and 8 form the outer surface, excepting at the corners where the sides or backs 7 are also exposed. In turning the corners the bricks are given a one-quarter turn, advancing with the sides 8 forming the outer surface in one course, and returning in the next course with the sides 6 forming the outer surface.

In advancing from the main wall or straight section 10 to form said pilaster, the first brick as shown at 13 as before stated, is given a one-quarter turn with its side 7 set back in the wall a distance equal to the thickness of said side, and returning in the next layer the brick in a similar position on the other side, is placed in the same manner, thereby binding the pilaster to the main wall in alternate courses. It will be understood, that the air passages are retained in the pilasters, as in no instance are the sides 7 placed otherwise than upon a solid portion of the bricks below. To complete the wall at this point, L-shaped filling blocks 14 are used, which are also reversed in the next course. The pilaster 12 is of less depth than the one just described, necessitating the turning of only one of its corners, as at 15.

In the construction shown in Fig. 2, wherein the pilaster is formed at the intersection of the straight walls 16 and 17, the corners are turned in the same manner as above described, filling blocks 19 being used to complete the formation.

Fig. 3 formation consists of two sizes of U-shaped blocks or bricks and an L-shaped filler.

In Fig. 4 the column construction is formed with every corner turned.

All constructions shown provide air passages in the main walls and pilasters or columns, which can be utilized as filling spaces for the reception of concrete and reinforcing rods when necessary.

Walls and pilasters formed in this manner with the particularly shaped bricks or blocks, are easily constructed, are thoroughly ventilated, of great stability, and the joints are staggered.

It will be observed, that the legs of each

of the bricks in each course, are extended from their backs in the same direction and follow the contour of the pilaster, so that, when the next course is laid in reverse position, the backs and legs of said course will rest upon the backs and legs of the bricks of the next underlying course, and the outer legs of all of the bricks will form the outer surface of the wall and pilaster.

10 Having thus fully described the invention, what is claimed is,

1. The herein described building wall having a pilaster, the whole formed of U-shaped bricks laid in courses and each brick having a back and legs, the bricks in alternate courses having their legs extending in the same direction from their backs, and in the remaining courses in the opposite direction, one of said legs of each brick forming the outer surface of the main wall and part of the outer surface of the pilaster, and the corner bricks of the pilaster, farthest from the wall, having their backs exposed in addition to the legs forming part of the outer surface thereof.

2. The herein described building wall having a pilaster, the whole formed of U-shaped bricks laid in courses and each brick having a back and legs, the bricks in alternate courses having their legs extending in the same direction from their backs, and in the remaining courses in the opposite direction, one of said legs of each brick forming the outer surface of the main wall and part of the outer surface of the pilaster, and the corner bricks of the pilaster, farthest from the wall, having their backs exposed in addition to the legs forming part of the outer surface thereof, and the bricks at each side of the pilaster, in each course and adjacent to the wall, facing in opposite directions.

3. The herein described building wall having a pilaster, the whole formed of

U-shaped bricks laid in courses and each brick having a back and legs, the bricks in alternate courses having their legs extending in the same direction from their backs, and in the remaining courses in the opposite direction, one of said legs of each brick forming the outer surface of the main wall and part of the outer surface of the pilaster, the corner bricks of the pilaster, farthest from the wall, having their backs exposed in addition to the legs forming part of the outer surface thereof, and the bricks at each side of the pilaster, in each course and adjacent to the wall, facing in opposite directions, one of which has its back in alinement with the legs forming the outer surface of the main wall.

4. The herein described building wall having a pilaster, the whole formed of U-shaped bricks laid in courses and each brick having a back and legs, the bricks in alternate courses having their legs extending in the same direction from their backs, and in the remaining courses in the opposite direction, one of said legs of each brick forming the outer surface of the main wall and part of the outer surface of the pilaster, the corner bricks of the pilaster, farthest from the wall, having their backs exposed in addition to the legs forming part of the outer surface thereof, and the bricks at each side of the pilaster, in each course and adjacent to the wall, facing in opposite directions, one of which has its back in alinement with the legs forming the outer surface of the main wall and the other one having the ends of its legs abutting said outer surface.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK McMURRAY SAWYER.

Witnesses:

M. STRADER,

J. E. MOORE.