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# UNITED STATES PATENT OFFICE.

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## WALL-BUILDING UNIT.

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*To all whom it may concern:*

Be it known that I, LEANDER D. HARTER, a citizen of the United States, residing at Oklahoma City, in the county of Oklahoma and State of Oklahoma, have invented certain new and useful Improvements in Wall-Building Units; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in units for constructing the walls of buildings, such as brick walls, cement block walls, etc.

To provide for ventilation, to economize in bricks or other blocks, and to also permit the use of a minimum amount of mortar, as well as cutting down expenses generally, I intend to construct the wall from inner and outer auxiliary walls spaced apart, and to this end, each unit for constructing the walls comprises two spaced, horizontally opposed blocks which may obviously be formed of baked clay, cement, or any other desired material. To hold the blocks in properly spaced relation and to form a hand-grip by means of which the mason may readily lift and place the unit, I provide a tie which extends between the two blocks, and the primary object of the invention is to provide this tie with portions which project beyond certain faces of the blocks, to engage other blocks and thus insure proper spacing.

With the foregoing in view, the invention resides in the novel subject matter herein-after described and claimed, the description being supplemented by the accompanying drawing.

Figure 1 is a side elevation of a portion of a wall constructed from the improved building units.

Figure 2 is a vertical transverse sectional view on line 2—2 of Fig. 1.

Figure 3 is a horizontal sectional view partly in elevation as indicated by line 3—3 of Fig. 2.

Figures 4 and 5 are vertical sectional views on the lines 4—4 and 5—5 of Fig. 3.

Figure 6 is a plan view showing the type of unit which is used at the corners of a building.

In Figs. 1 to 5 of the drawing above described, the numerals 1 designate two horizontally spaced and opposed blocks which are preferably of the proportions of an ordi-

nary brick, although such proportions are not essential. Extending between these blocks is a tie 2 which is preferably formed of metal, said tie having bifurcated ends whose furcations 3 are embedded in the blocks, the free ends of said furcations being vertically bent or otherwise directed laterally as indicated at 4 and projecting as at 5 beyond certain faces of the blocks, providing spacing members which are adapted to contact with the blocks of other units, so that correct spacing will be insured as is evident from Figs. 1, 2, and 4 of the drawing.

Preferably the furcations 3 are tied together by wires or the like 6 which are embedded in the blocks 1.

For use at the corners of a building, blocks 1<sup>a</sup> are provided, such as illustrated in Fig. 6, said blocks being integrally connected at one end by another block portion 1<sup>b</sup>. In this construction, like that above described, a tie is employed between the blocks 1<sup>a</sup>, said tie being indicated at 2<sup>a</sup> and being of the same construction as the tie 2 above described.

By providing the construction shown and described or a substantial equivalent thereof, a building unit is provided which will be simple and inexpensive, will be easy to lay, will produce a comparatively inexpensive wall, will allow for effective ventilation of such wall, will economize in material used for the blocks as well as in the mortar for laying such blocks, and due to the fact that less material is used in the completed wall, the freight rates for transporting such material will be reduced.

As excellent results are obtainable from the details disclosed, they are preferably followed. However, within the scope of the invention as claimed, modifications may of course be made.

I claim:

1. A wall building unit comprising a pair of horizontally spaced blocks, and a metal tie connecting said blocks, said tie having portions embedded in said blocks and other portions projecting beyond horizontal faces of the blocks to contact with other blocks and insure proper spacing.

2. A wall building unit comprising a pair of horizontally spaced blocks and a metal tie connecting said blocks, said tie having portions embedded in and passing through the blocks and projecting beyond horizontal

faces thereof to contact with other blocks and insure proper spacing.

3. A wall building unit comprising a pair of horizontally spaced blocks, and a metal  
5 tie extending between said blocks and having bifurcated end portions embedded therein, the outer ends of said end portions being

vertically directed and projecting beyond horizontal faces of the blocks to contact with other blocks and insure proper spacing.

In testimony whereof I have hereunto  
affixed my signature.

LEANDER D. HARTER.