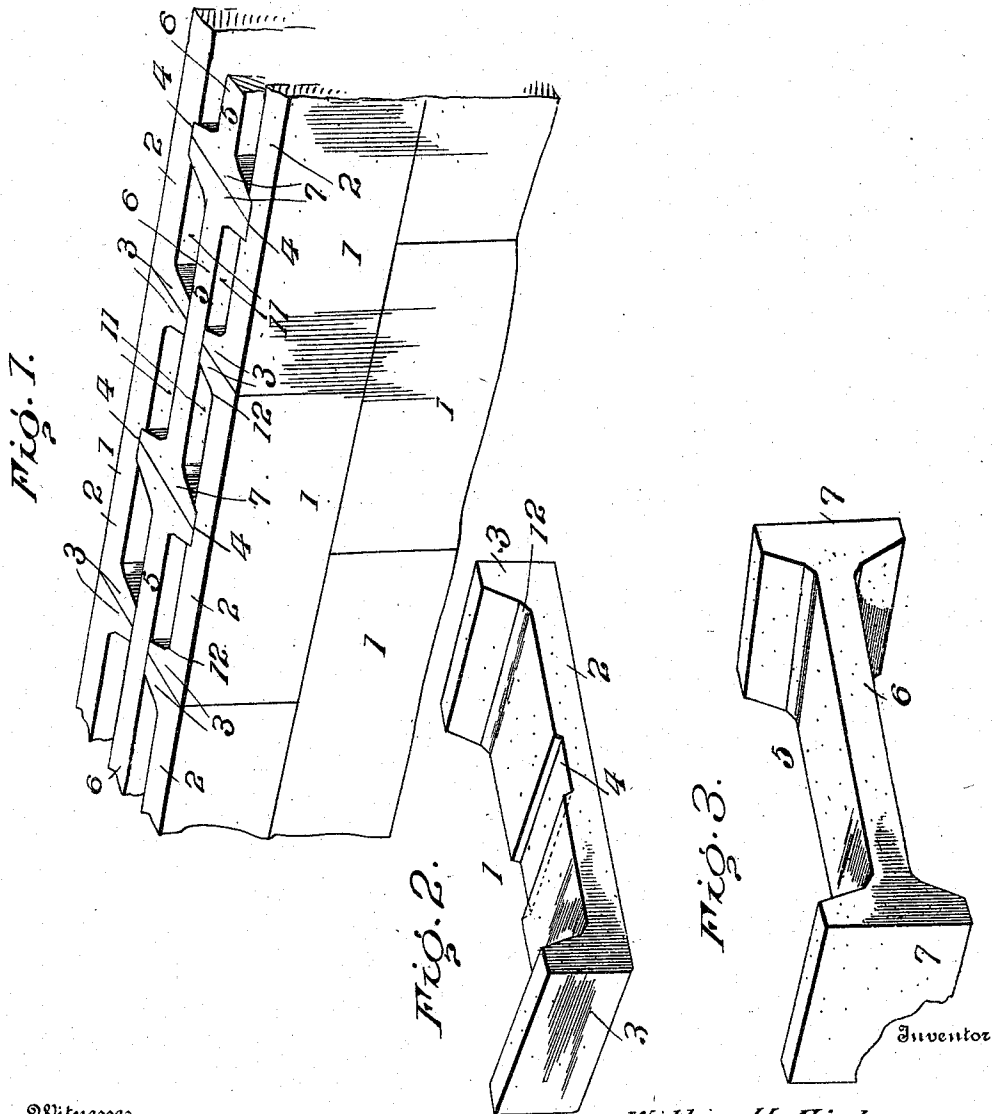


No. 840,760.

PATENTED JAN. 8, 1907.

W. H. FISHER.  
WALL STRUCTURE.  
APPLICATION FILED JULY 12, 1906.



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIS H. FISHER, OF MOUNT GILEAD, OHIO.

## WALL STRUCTURE.

No. 840,760.

Specification of Letters Patent.

Patented Jan. 8, 1907.

Application filed July 12, 1905. Serial No. 269,304.

*To all whom it may concern:*

Be it known that I, WILLIS H. FISHER, a citizen of the United States of America, and a resident of Mount Gilead, in the county of Morrow and State of Ohio, (whose post-office address is 124 Main street, Mount Gilead, Ohio,) have invented certain new and useful Improvements in Wall Structures, of which the following is a specification.

My invention relates to certain new and useful improvements in wall structures and blocks from which such structures are built.

In the form of my invention shown in this application the wall is a three-thickness wall and built by the use of two kinds of blocks, the blocks forming a series of air-chambers which extend the full height of the wall between the thicknesses composing the wall.

Referring to the drawings, wherein I show the preferred form of my invention and wherein the same part is designated by the same reference-numeral wherever it occurs, Figure 1 is a perspective view of a section of a wall built in accordance with my invention.

Fig. 2 is a perspective view of one of the blocks from which the two outer tiers of the wall are constructed. Fig. 3 is a perspective view of one of the blocks from which the inner tier is constructed.

1 designates a block of the kind from which the outer tiers of the wall are built. This block is composed of a body portion 2, provided with projections 3 at each end thereof, the projections 3 being of equal length and angularly disposed with respect to the body portion. These projections form with the body portion a substantially E-shaped block. Located centrally of the body portion between the projections 3 3 is a groove or notch 4, which is of sufficient width to accommodate two of the projections which are formed on the block 5.

5 designates one of the blocks from which the inner tier of the wall is built and is composed of a body portion 6, provided with a projection 7 at each end thereof, the projections extending across the end of the block and extending an equal distance on each side thereof. These projections form with the body portion a substantially I-shaped block.

In order to construct a wall of these blocks, each tier is formed by laying the middle blocks 5 or 8 and then fitting on each side thereof the blocks 1, so that the projections 7 will enter the grooves or notches 4 of blocks 1, as shown in Fig. 1, whereby all parts of the

wall are securely bonded together. The succeeding tiers of the wall are laid so that they will break joints, and it will be noticed that all the joints in the wall from one side to the other are broken by this construction. By this construction there are formed between the outer and inner tiers of blocks the air-chambers 11, which extend for the full length of the wall.

In order to strengthen the corners of the blocks, I provide in the angle formed between the body portion and the projections in all forms of the block shown a reinforcing portion 12, whereby the liability of the blocks to crack or break is greatly decreased.

While I have described what I believe to be the preferred form of my invention, I desire to have it understood that many changes may be made in the form, construction, and arrangement of parts without departing from the spirit of my invention.

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

1. A wall of three thicknesses comprising a middle thickness formed of blocks composed of a body portion having a projection extending out from each side of the body portion at each end thereof and substantially E-shaped blocks laid on each side of the middle thickness to form the outer thicknesses of said wall, the projections on the middle thickness extending between the lateral ends of the substantially E-shaped blocks, the projections on the middle blocks being spaced apart from the lateral ends of the E-shaped blocks, so as to leave vertical air-spaces in the wall.

2. A wall of three thicknesses comprising a middle thickness formed of blocks having a projection extending out from each side of the body portion at each end thereof, and blocks composed of a body portion and a lateral projection extending at an angle from one side of the body portion at each side thereof, laid on each side of the middle thickness to form the outer thicknesses, projections on the middle thickness extending between the projections of the blocks formed on the outer thicknesses, the projections on the middle thickness being spaced apart from the lateral projections of the blocks of the outer thicknesses, so as to leave vertical air-spaces in the wall.

3. A wall of three thicknesses comprising a middle thickness formed of blocks composed of a body portion, having a projection extending out from each side of the body portion at

each end thereof and blocks composed of a  
body portion and a lateral projection extend-  
ing at an angle from one side of the body por-  
tion from each end thereof and a depression  
5 formed in the side of the body portion into  
which the projections on the blocks of the  
middle thickness are adapted to enter to lock  
the parts of the wall together, said projec-  
tions on the blocks forming the middle thick-  
10 ness being spaced apart from the lateral pro-

jections of the blocks forming the outer  
thicknesses so as to leave vertical air-spaces  
in the wall.

Signed by me at city of Baltimore, State of  
Maryland, this 7th day of July, 1905.

WILLIS H. FISHER.

Witnesses:

GEO. W. HAULENBEEK,  
JOHN E. CROSS.