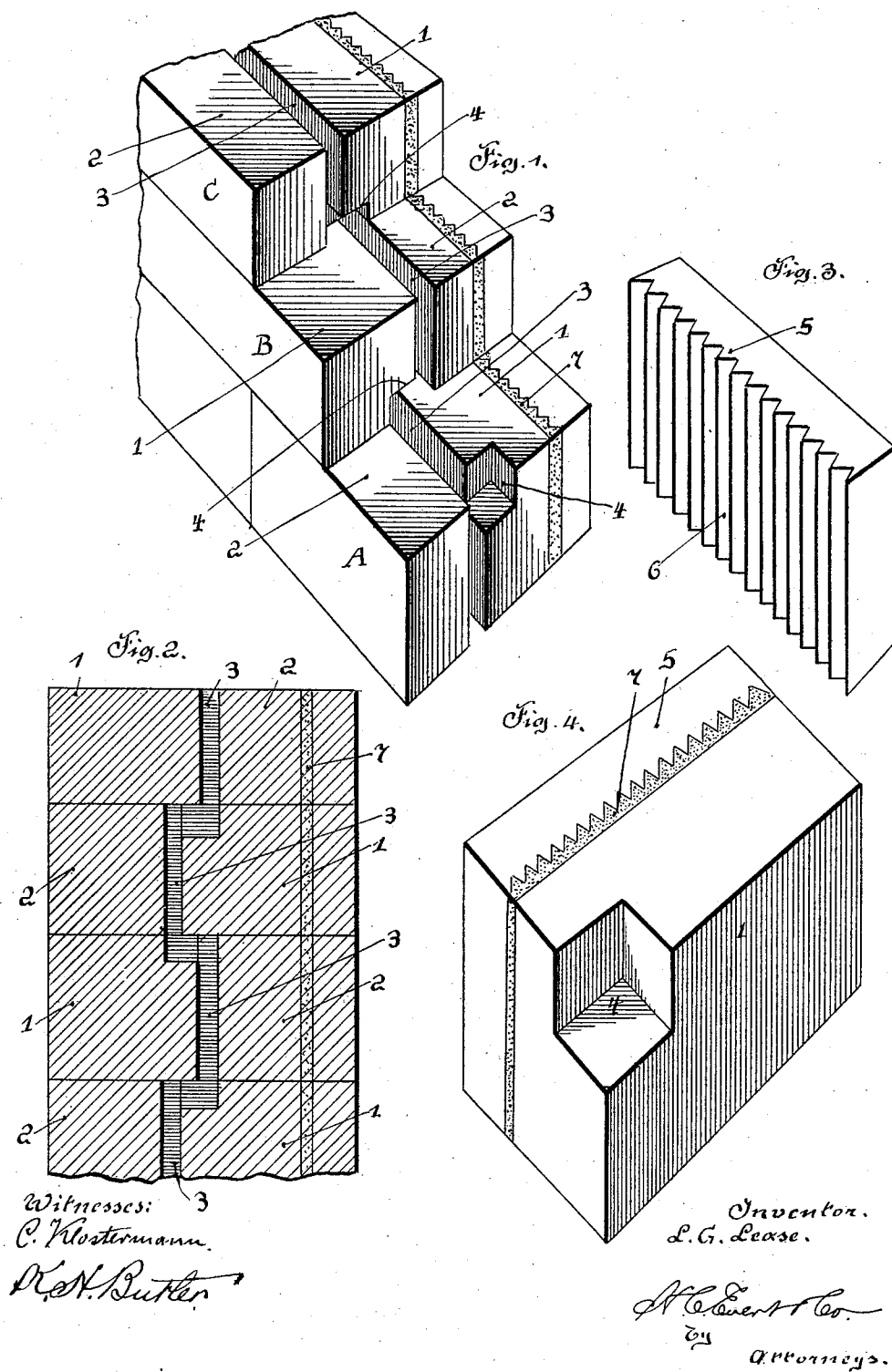


No. 868,999.

PATENTED OCT. 22, 1907.

L. G. LEASE.
WALL CONSTRUCTION.
APPLICATION FILED OCT. 3, 1906.



UNITED STATES PATENT OFFICE.

LYMAN G. LEASE, OF WARREN, OHIO.

WALL CONSTRUCTION.

No. 868,999.

Specification of Letters Patent.

Patented Oct. 22, 1907.

Application filed October 3, 1906. Serial No. 337,167.

To all whom it may concern:

Be it known that I, LYMAN G. LEASE, a citizen of the United States of America, residing at Warren, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Wall Construction, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to certain new and useful improvements in wall construction, and the invention has for its primary object to provide a novel form of building block which when properly laid will form a vertically disposed air passage in a wall, thereby maintaining a perfectly dry wall and one well ventilated.

Another object of this invention is to provide a building block having an artificial face, said blocks being provided with a facing according to the type of structure in connection with which they are used.

With these and other objects in view which will more readily appear as the invention is better understood, the same consists in the novel construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

Referring to the drawing forming part of this specification, like numerals of reference designate corresponding parts throughout the several views, in which:—

Figure 1 is a perspective view of a portion of a wall constructed in accordance with my invention, the blocks of said wall being staggered with relation to one another, Fig. 2 is a vertical sectional view of a wall, the blocks thereof being laid one upon the other with the adjoining edges of one tier alining with the adjoining edges of its adjoining tier, Fig. 3 is a perspective view of one of the facings used in connection with my improved blocks, Fig. 4 is a perspective view enlarged of one of the blocks.

In constructing my improved walls, building blocks of stone, brick, concrete or any other well known material may be used. The blocks are preferably constructed of two sizes, whereby large blocks of each tier will overlap the large blocks of the adjoining tier. When so arranging the blocks, vertically disposed air spaces are left between the blocks of each tier.

Reference will now be had to Fig. 1 where the arrangement of the blocks is clearly shown.

The reference numeral 1 designates the large blocks of a wall and the reference numeral 2 the small blocks thereof, while 3 designates the vertically disposed air spaces between said blocks.

It will be observed that the air spaces of the tier of blocks A are staggered with relation to the air spaces of the tiers B and C. In order that these air spaces may be connected together, to insure a thorough ventilation of the wall, I cut away one corner of each large block 1, as at 4, to establish communication between the air spaces 3 of the several tiers.

In Fig. 2 of the drawing, I have illustrated a portion of a wall where the blocks are laid one upon the other with their adjoining outer edges alining. In this construction, the air spaces 3 are maintained in communication with one another by the cut away corners 4 of the large blocks 1.

Another feature of my invention resides in providing the exposed side or sides of a wall with an artificial facing, this being accomplished by using the facing 5 having a corrugated or serrated surface 6. The facing may be made of terra cotta, tiling, metal, or any other material that may present a smooth and attractive surface. The facing is secured to the blocks of the wall by cement 7, or a suitable plastic and adhesive material. This facing permits of a wall being constructed with a perfectly smooth and perpendicular facing.

I do not care to confine myself to the character of building block or structure in which my invention may be embodied, and such changes in the minor details of my invention, as are permissible by the appended claims, may be resorted to without departing from the spirit and scope of the invention.

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

1. A wall composed of building blocks arranged in tiers of courses with alternating blocks of different sizes composing each tier and with the larger blocks of one tier overlapping the larger blocks of the other tier, the larger blocks of one tier being free from abutting engagement with the smaller blocks of the other tier to form irregular vertical air spaces between the tiers, each of the larger blocks having a recess registering with the air spaces between the larger and smaller blocks of the respective tiers.

2. A wall composed of building blocks arranged in tiers of courses with alternating blocks of different sizes composing each tier and with the larger blocks of one tier overlapping the larger blocks of the other tier, the larger blocks of one tier being free from abutting engagement with the smaller blocks of the other tier to form irregular vertical air spaces between the tiers, each of the larger blocks having a recess registering with the air spaces between the larger and smaller blocks of the respective tiers, and facings secured to the tier of blocks forming the exposed side of the wall.

3. A wall whose units are composed of two series of building blocks of unequal size with the blocks of one of said series provided with recesses in one side, and said wall constructed by arranging the blocks in tiers of courses with the smaller blocks at one side of each alternate course and the larger blocks at the other side of each alternate course arranged with their adjacent faces spaced apart and with recesses in the blocks of one series overlapping the spaces of the adjacent blocks, whereby continuous and sinuous air spaces are produced in the wall structure.

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

LYMAN G. LEASE.

Witnesses:

GEO. T. HECKLINGER,
CHAS. C. BUBB.