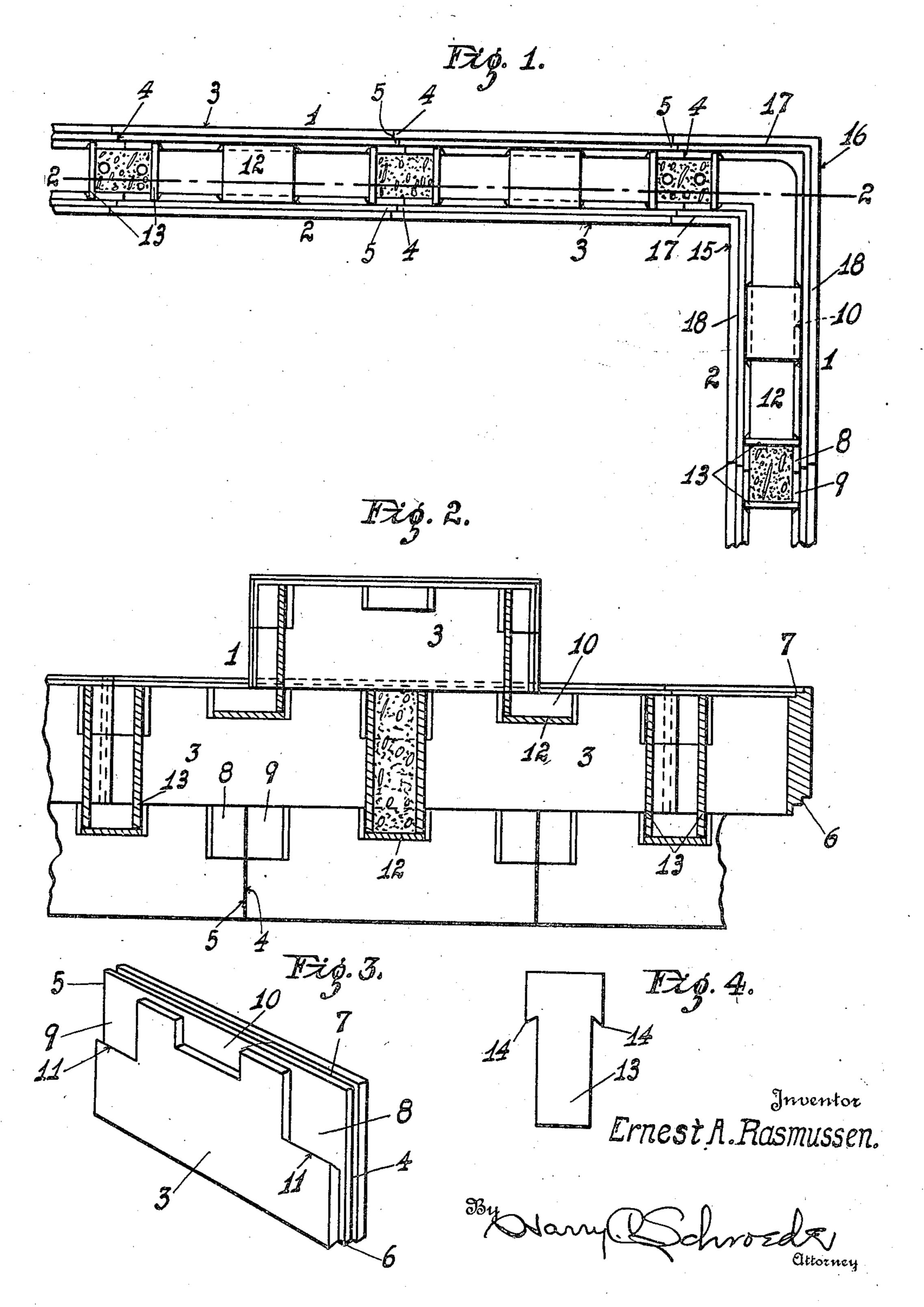
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BUILDING WALL CONSTRUCTION

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STATES PATENT OFFICE.

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BUILDING-WALL CONSTRUCTION.

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To all whom it may concern:

5 State of California, have invented certain rest directly over the recesses 10 in the slabs new and useful Improvements in Building-Wall Constructions, of which the following is a specification.

My invention is a building wall construc-10 tion which may be cheaply manufactured and cheaply and rapidly erected, and when erected is substantial and durable.

Referring to the annexed drawing in which my invention is illustrated and which 15 forms a part of this specification:

Figure 1 is a plan view of a fragment of

my wall structure.

Figure 2 is a vertical section of a portion of my wall structure taken on line 2-2 of 20 Figure 1.

wall slabs.

keys.

My wall structure includes an outer wall 9 in the outer and inner wall units directly wall units are each composed of a plurality of slabs 3 preferably rectangular in shape, laid end to end horizontally and superimlike bricks in a brick wall. The ends of the each pair upon the plates 12 and when hard 5 respectively, the rabbets 4 being undercut toward the inner side of the slabs and the of the slabs so that the slabs may be laid end to end with the rabbets 4 and 5 of adjacent slabs interengaging each other. The lower and upper longitudinal edges of the slabs are formed with double rabbets 6 and 7 respectively, the rabbets 6 being undercut toward the outside of the slabs and the rabbets 7 being undercut toward the inside of 45 the slabs so that the slabs may be superim- of each row being staggered with relation posed upon each other with the rabbets 6 to the end joints of adjacent rows, the ends and 7 of the immediately superimposed slabs of the slabs being rabbeted to interengage interengaging each other. The interengaging ends of the slabs of each horizontal row the slabs being rabbeted to interengage each 105 50 staggered with relation to the interengaging ends of the slabs immediately above and below. On the inside of each slab are recesses 8 and 9 and 10, the recesses 8 and 9 being square and extending from the upper corners 55 of the slab, and the recess 10 being rectangular and extending from the upper edge of

the slab to a vertical depth less than that of Be it known that I, Ernest A. Rasmussen, the recesses 8 and 9. When erected the recitizen of the United States, residing at cesses 8 and 9 of adjacent slabs register with Oakland, in the county of Alameda and each other and form single recesses which 60 immediately below, and the recesses 8 and 9 and 10 of the slabs of the outer wall unit lie opposite corresponding recesses in the inner wall unit. The lower edges 11 of the recesses 65 8 and 9 are undercut or dovetailed while the side edges of said recesses are beveled outwardly. Plates 12 are placed between the outer and inner wall units 1 and 2, and rest upon the lower edges of opposite recesses 10 70 in said wall units. Keys 13 consist of rectangular plates formed with undercut shoulders 14 at their side edges near the tops thereof. These keys are placed in pairs between the outer wall unit and the inner wall 75 unit, with the keys of each pair spaced a Figure 3 is a perspective of one of the short distance apart, so that each pair rests upon a plate 12 and the shoulders 14 of the Figure 4 is a side view of one of the wall keys of the pair rest respectively on the lower edges 11 of the opposite recesses 8 and 80 unit 1 and an inner wall unit 2 spaced a above the plate, one key engaging the side short distance within said outer unit. The edge of the recess 8 and the other key engaging the side edge of the recess 9, and the upper edges of the keys coinciding with the 85 upper edges of said recesses. Cement or posed side-edgewise in staggered relation concrete is poured between the keys of slabs are formed with double rabbets 4 and binds the walls together at their joints, and effectively seals the vertical joints between 90 the slabs. The corner slabs 15 and 16 of the rabbets 5 being undercut toward the outside inner and outer wall units may be formed with slab members 17 and 18 extending at right angles to each other. These slabs are otherwise the same as the slabs 3.

Having described my invention, I claim: 1. A wall construction including an inner unit, an outer unit, each unit comprising slabs laid end to end in horizontal rows superimposed upon each other, the end joints 100 each other, the lower and upper edges of other, recesses formed on the inside of the slabs at the upper corners thereof so that the corner recess of each slab registers with the corner recess of the adjacent slab, the lower edges of said corner recesses being 110 undercut, the slabs being also formed on their inside at their upper edges with plate

supporting recesses directly below the reg- other, recesses formed on the inside of the istering corner recesses, plates placed be- slabs at the upper corners thereof so that tween the outer and inner wall units upon the corner recess of each slab registers with the lower edges of opposite plate support- the corner recess of the adjacent slab, the ing recesses, keys formed with undercut lower edges of said corner recesses being 55 shoulders arranged in pairs spaced a short undercut, the slabs being also formed on distance apart and placed so that each pair their inside at their upper edges with plate rests upon a plate and the undercut shoul- supporting recesses directly below the regders thereof engage the undercut lower istering corner recesses, plates placed be-10 edges of the corner recesses above said plate, tween the outer and inner wall units upon 60 and a cement filling between each pair of the lower edges of opposite plate support-

keys.

unit, an outer unit, each unit comprising distance apart and placed so that each pair 15 slabs laid end to end in horizontal rows rests upon a plate and the undercut shoul- 65 superimposed upon each other, the end joints ders thereof engage the undercut lower of each row being staggered with relation edges of the corner recesses above said plate, to the end joints of adjacent rows, the ends and a cement filling between each pair of of the slabs being double rabbeted to inter-20 engage each other, the lower and upper edges of the slabs being double rabbeted to interengage each other, recesses formed on the inside of the slabs at the upper corners thereof so that the corner recess of each 25 slab registers with the corner recess of the adjacent slab, the lower edges of said corner recesses being undercut, the slabs being also formed on their inside at their upper edges with plate supporting recesses directly below the registering corner recesses, plates rections to interengage each other, recesses 80 placed between the outer and inner wall formed on the inside of the slabs at the upunits upon the lower edges of opposite plate per corners thereof so that the corner recess supporting recesses, keys formed with un- of each slab registers with the corner recess dercut shoulders arranged in pairs spaced a short distance apart and placed so that each pair rests upon a plate and the undercut shoulders thereof engage the undercut lower edges of the corner recesses above said plate, and a cement filling between each pair 40 of keys.

3. A wall construction including an inner unit, an outer unit, each unit comprising slabs laid end to end in horizontal rows superimposed upon each other, the end joints 45 of each row being staggered with relation to the end joints of adjacent rows, the ends of the slabs being rabbeted in opposite directions to interengage each other, the lower and upper edges of the slabs being rabbeted 50 in opposite directions to interengage each

ing recesses, keys formed with undercut 2. A wall construction including an inner shoulders arranged in pairs spaced a short

4. A wall construction including an in- 70 ner unit, an outer unit, each unit comprising slabs laid end to end in horizontal rows superimposed upon each other, the end joints of each row being staggered with relation to the end joints of adjacent rows, the 75 ends of the slabs being double rabbeted in opposite directions to interengage each other, the lower and upper edges of the slabs being double rabbeted in opposite diof the adjacent slab, the lower edges of said corner recesses being undercut, the slabs 85 being also formed on their inside at their upper edges with plate supporting recesses directly below the registering corner recesses, plates placed between the outer and inner wall units upon the lower edges of op- 30 posite plate supporting recesses, keys formed. with undercut shoulders arranged in pairs spaced a short distance apart and placed so that each pair rests upon a plate and the undercut shoulders thereof engage the un- 95 dercut lower edges of the corner recesses above said plate, and a cement filling between each pair of keys.

In testimony whereof I affix my signature. ERNEST A. RASMUSSEN.