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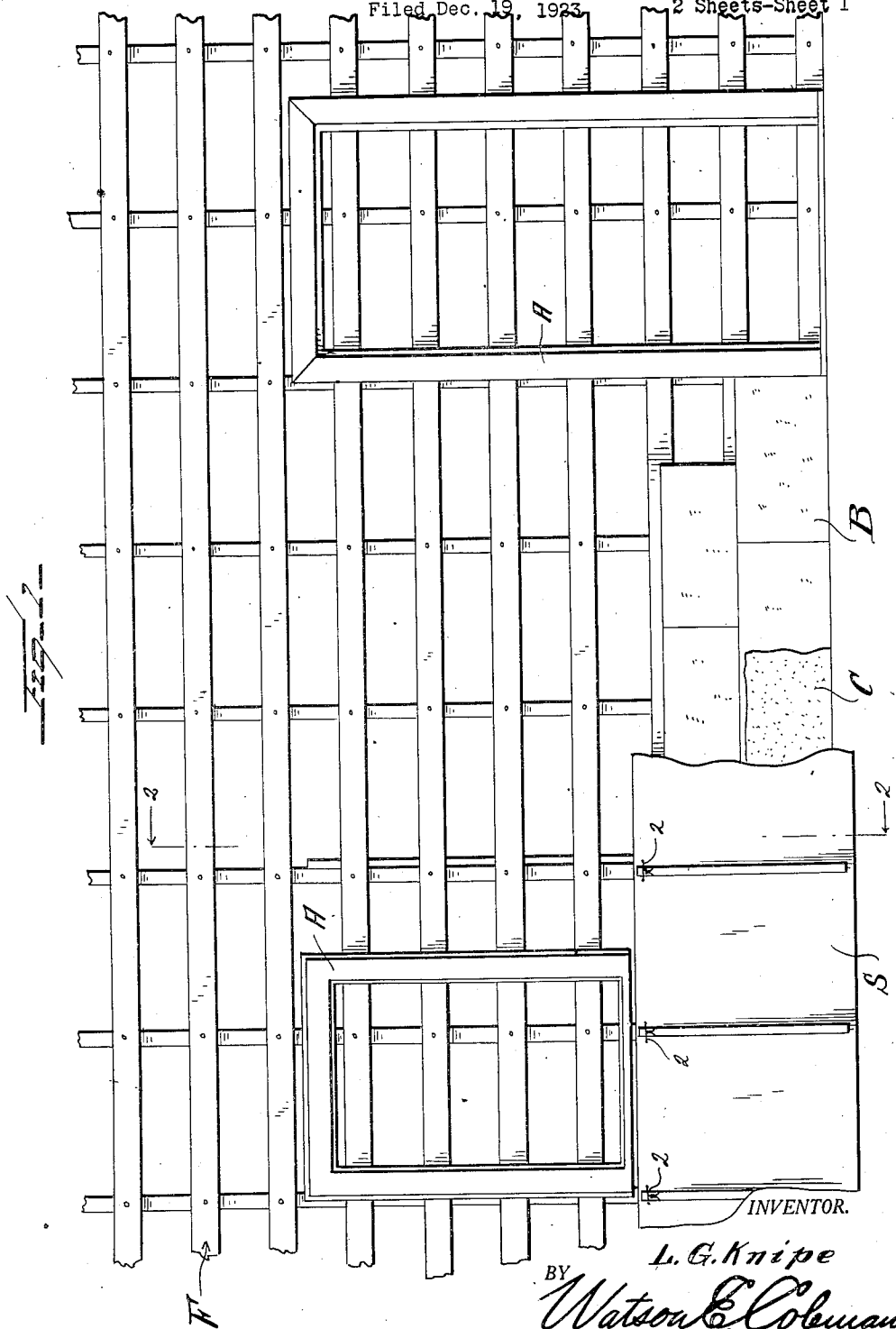
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L. G. KNIPE

BUILDING CONSTRUCTION

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2 Sheets-Sheet 1



INVENTOR.

L. G. Knipe

BY

Watson E. Coleman  
ATTORNEY.



## UNITED STATES PATENT OFFICE.

LEIGHTON GREEN KNIPE, OF ALPINE, TEXAS.

BUILDING CONSTRUCTION.

Application filed December 19, 1923. Serial No. 681,667.

*To all whom it may concern:*

Be it known that I, LEIGHTON GREEN KNIPE, a citizen of the United States, residing at Alpine, in the county of Brewster and State of Texas, have invented certain new and useful Improvements in Building Constructions, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to certain improvements in building constructions and it is the primary object of the invention to provide for the construction of a wall in a manner to materially reduce the cost of using ordinary material.

15 Another object of the invention is to provide novel and improved means for constructing a wall wherein is employed a false work vertical frame, the critical elements of said frame determining the plane of the inside surface of the wall.

The novel features of my invention will hereinafter be definitely claimed.

20 In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein:—

25 Figure 1 is a fragmentary elevational view illustrating a means of constructing a wall in accordance with an embodiment of my invention;

30 Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1;

35 Figure 3 is a view somewhat similar to Figure 2 but illustrating a further step in the wall construction;

40 Figure 4 is a fragmentary sectional view taken substantially on the line 4—4 of Figure 2.

45 My means for constructing a wall as herein disclosed is adaptable to the production of any ordinary architectural plan or elevation, yielding a superior mechanical job and lessening the chance of error in the plumb and line of walls, the placing of openings and the like.

50 As disclosed in the accompanying drawings, F denotes a false work frame which, in the production of the wall is adapted to be properly positioned upon the foundation and vertically disposed, said frame determining the plane of the inside surface of the wall to be constructed. The frames A for all openings, such as for windows or doors, are then fastened to the frame F in their exact positions and the position of all other

required features, such as plumbing pipes, electrical conduits, etc., are determined by their relation to the frame.

60 The slab form S is placed in position with respect to the frame F as illustrated in Figure 2 of the accompanying drawings, said form S being maintained in requisite position through the instrumentality of the spacers 1 and the holding wires 2 or the like.

65 A tier of gypsum blocks B is then placed, the inside surface of said blocks B being in contact with the frame F. The space between the slab form S and the tier of blocks B has applied therein a filler C of concrete. A second tier of gypsum blocks B is then laid upon the first mentioned tier and the remaining space filled with concrete as just stated with respect to the lower tier B. After allowing sufficient time for the concrete to harden the slab form S is raised, as illustrated in Figure 3 of the accompanying drawings, and the process is continued until the desired height of the wall is attained.

80 This mode of construction is of decided advantage. Instead of plumbing and lining each individual block B it is only necessary to plumb and line the frame F thereby greatly reducing the time ordinarily required by the ordinary method and hence the cost of laying and at the same time increasing accuracy. When approaching an opening, the mechanics working on the wall are not delayed in the determination of the exact location of such opening as is often the case in the ordinary method and the position of the opening is determined with greater accuracy. Furthermore a wall constructed as hereinbefore described provides for the concealing of plumbing pipes, electrical wiring, etc., or any special feature within the limits of the wall.

85 It is also to be understood that my improved mode of wall construction is applicable to any bricks, blocks or slabs and that the blocks may be used in combination with any kind of concrete in the composition of the wall or in combination with the concrete omitted without in any way departing from the spirit of the present invention.

90 Upon removing the frame F, the inside surface of the finished wall is perfectly true with the various frames A in proper place. By reinforcing and varying the thickness of the concrete any stability of wall may be obtained. The gypsum blocks take the excess

of moisture from the concrete when poured and return it to the concrete as setting continues whereby a very superior concrete is made under conditions where aeration would  
5 destroy the value of the concrete under ordinary methods. Furthermore in the wall construction the blocks B thoroughly insulate the wall against heat and cold. The blocks B also prevent moisture and grit  
10 coming in contact with the frame F so that said frame may be used repeatedly.

I claim:—

1. A mode of constructing a dual wall consisting in plumbing and lining a false  
15 work frame for the inner face of the wall, positioning a slab form in proper position with respect to the frame, spacers interposed between and secured to the frame and slab form, erecting a wall of blocks in direct  
20 contact with the frame, filling the space be-

tween the slab form and said wall of blocks with a suitable composition, and removing the slab form and frame when the dual wall is completed.

2. A method of constructing a dual wall 25 consisting in plumbing and lining a false work frame for the inner face of the entire wall, positioning building appurtenances upon said frame, positioning a slab form in proper position with respect to the frame, 30 spacers interposed between and secured to the frame and slab form, erecting a wall of blocks in direct contact with the frame, filling the space between the slab form and said wall of blocks with a suitable composition, and removing the slab form and frame 35 when the dual wall is completed.

In testimony whereof I hereunto affix my signature.

LEIGHTON GREEN KNIPE.