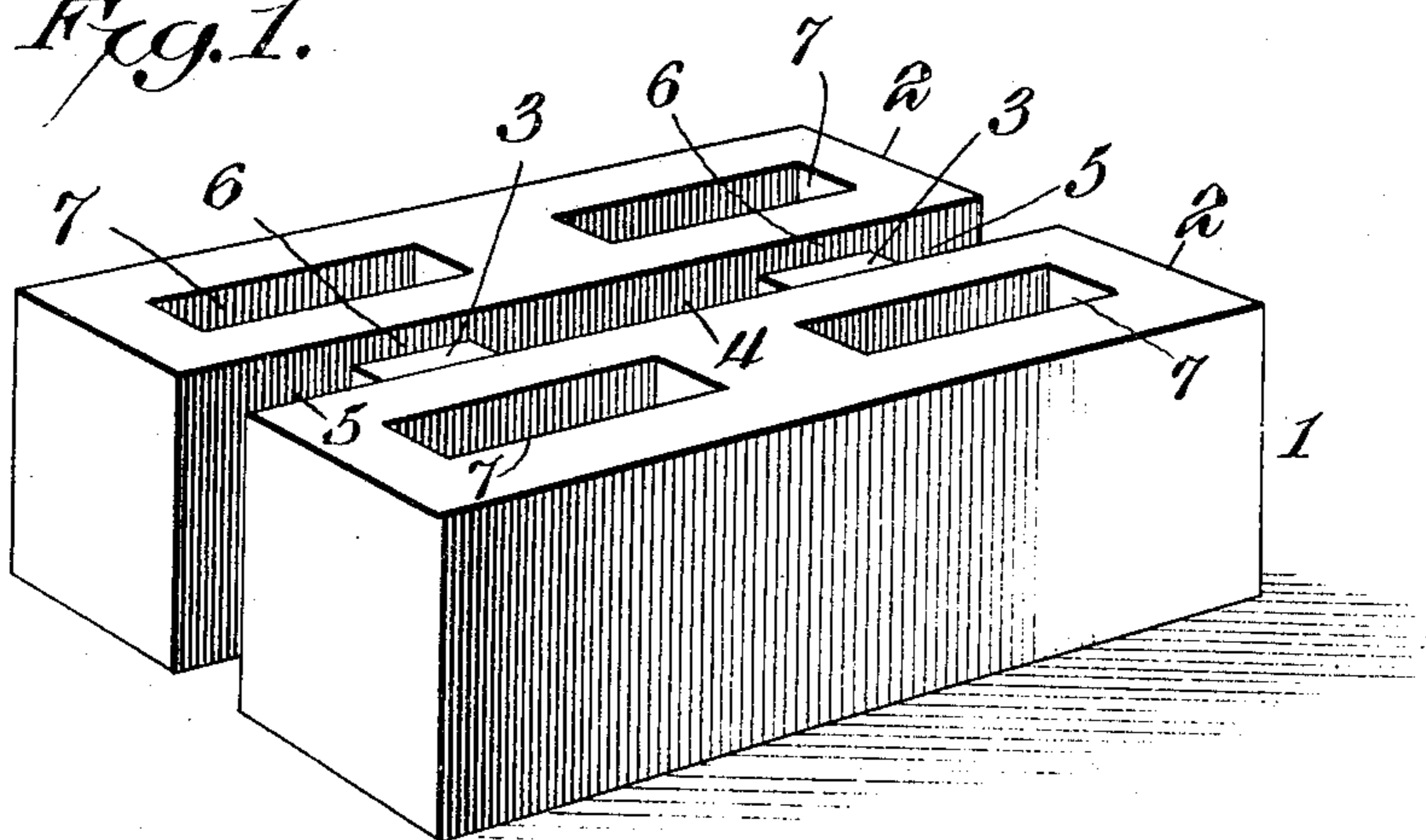


S. BUTZ.  
BUILDING BLOCK.  
APPLICATION FILED NOV. 10, 1908.

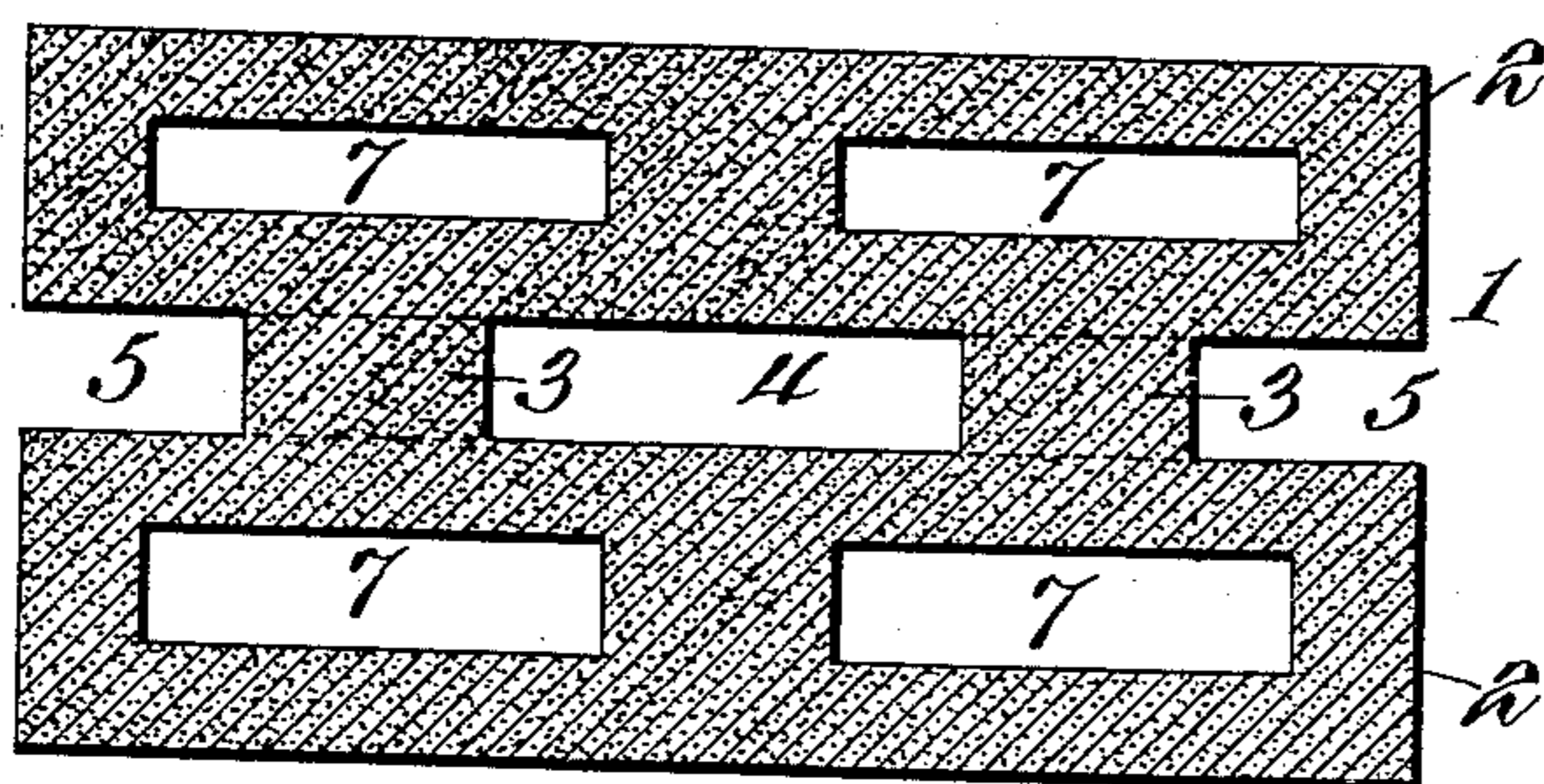
943,518.

Patented Dec. 14, 1909.

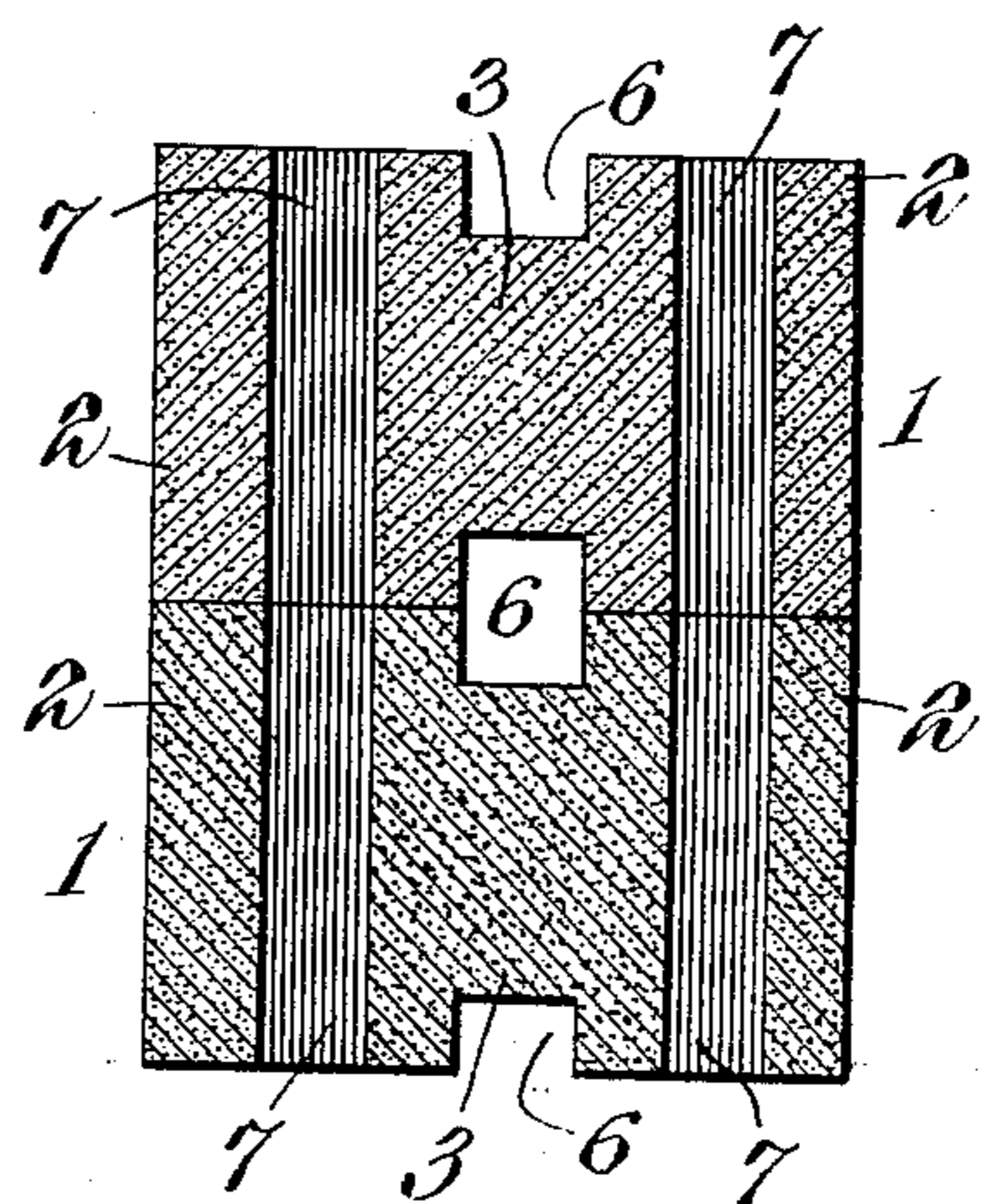
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

Howard D. Orr.  
J. T. Riley

Samuel Butz,

Inventor,

By

C. G. Siggers

Attorney

# UNITED STATES PATENT OFFICE.

SAMUEL BUTZ, OF EASTON, PENNSYLVANIA.

## BUILDING-BLOCK.

943,518.

Specification of Letters Patent.

Patented Dec. 14, 1909.

Application filed November 10, 1908. Serial No. 461,934.

*To all whom it may concern:*

Be it known that I, SAMUEL BUTZ, a citizen of the United States, residing at Easton, in the county of Northampton and State of Pennsylvania, have invented a new and useful Building-Block, of which the following is a specification.

The invention relates to improvements in building blocks.

10 The object of the present invention is to improve the construction of building blocks; and to provide a simple and comparatively inexpensive one, designed to be constructed of cement, or other plastic material and provided with perfectly distributed air spaces, arranged both vertically and horizontally and adapted to effectually prevent dampness and frost from penetrating to the back of the block.

20 A further object of the invention is to provide a building block of this character composed of spaced sections, provided with vertical air spaces and having the connecting means so arranged as to form connected vertical and horizontal air spaces, arranged independently of the vertical air spaces of the sections, and capable of interrupting the frost and moisture at the joints between the blocks.

30 With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

40 In the drawings:—Figure 1 is a perspective view of a building block; constructed in accordance with this invention. Fig. 2 is a horizontal sectional view. Fig. 3 is a transverse sectional view on the line 3—3 of Fig. 2.

45 Like numerals of reference designate corresponding parts in all the figures of the drawing.

50 1 designates a building block, designed to be constructed of cement, or other suitable plastic material and consisting of two duplicate hollow rectangular sections 2, preferably oblong in elevation and plan view and connected with each other by webs 3 of less thickness or height than the block, and terminating short of the upper and lower edges

of the sections and forming intervening vertical air spaces 4 and 5 and horizontal air spaces 6 between the said sections. The sections may be of any desired size, and although two are illustrated in the accompanying drawing, yet it will be apparent that their number may be increased to provide a building block of the desired size.

60 The sections are provided with a plurality of vertical openings 7, forming vertical air spaces. These openings are of uniform size, and the opening 7 of one section is arranged opposite the openings of the other section at corresponding points, while the connecting webs 3 are arranged at points intermediate of the parallel vertical openings 7 and spaced mid-way of the said openings. The webs 3 are spaced apart to provide the vertical openings or air spaces 4, and are spaced from the ends of the sections to provide the terminal vertical spaces 5. By making the webs of a thickness or height less than the building block, the horizontal air spaces 6 are formed when the blocks are assembled, as illustrated in Fig. 3 of the drawing. The vertical air spaces 6 operate in the usual manner to prevent frost and moisture from penetrating from the front to the back of the building block, and the vertical and horizontal air spaces between the sections of the building block interrupt the dampness and moisture at the joints and effectually prevent the same from passing through the inner or rear section of the block.

85 The building block, which is designed to be used in the ordinary manner in the construction of walls, etc., will in practice be provided with a ribbed or roughened rear face for enabling plaster to be applied directly to the block, thereby avoiding the labor and expense incident to furrowing and lathing preparatory to plastering. Also metallic bonds of any other character may be employed for binding the building blocks in the structure in which they are used.

100 Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

105 1. A building block including a plurality of duplicate hollow integral sections, each section being provided with a plurality of vertical openings, the openings of each section being arranged in parallel relation with the openings of the other section, an integral connecting web uniting the sections at a

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point intermediate of the parallel openings and spaced mid-way of the said openings and being of less height and width than the block, whereby connected vertical and  
5 horizontal openings are formed between the sections.

2. A building block including a plurality of duplicate hollow integral sections, each section being provided with a plurality of  
10 vertical openings, the openings of each section being arranged in parallel relation with the openings of the other section, and integral connecting webs uniting the sections at a point intermediate of the parallel vertical  
15 openings and spaced mid-way of the said openings and being of less height and width than the block, whereby connected vertical and horizontal openings are formed between the sections.

20 3. A building block including a plurality of spaced parallel sections of corresponding

size and shape, each section being provided with a plurality of vertical openings, the openings of each section being arranged in  
alinement with each other and in parallel 25 relation with the openings of the other section, and a plurality of integral connecting webs uniting the sections at a point intermediate of the parallel vertical openings and spaced mid-way of said openings and 30 being of less height and width than the block, whereby connected horizontal and vertical openings are formed between the sections.

In testimony, that I claim the foregoing 35 as my own, I have hereto affixed my signature in the presence of two witnesses.

SAMUEL BUTZ.

Witnesses:

JOHN S. NOBLE,  
H. T. BUCKLEY.