

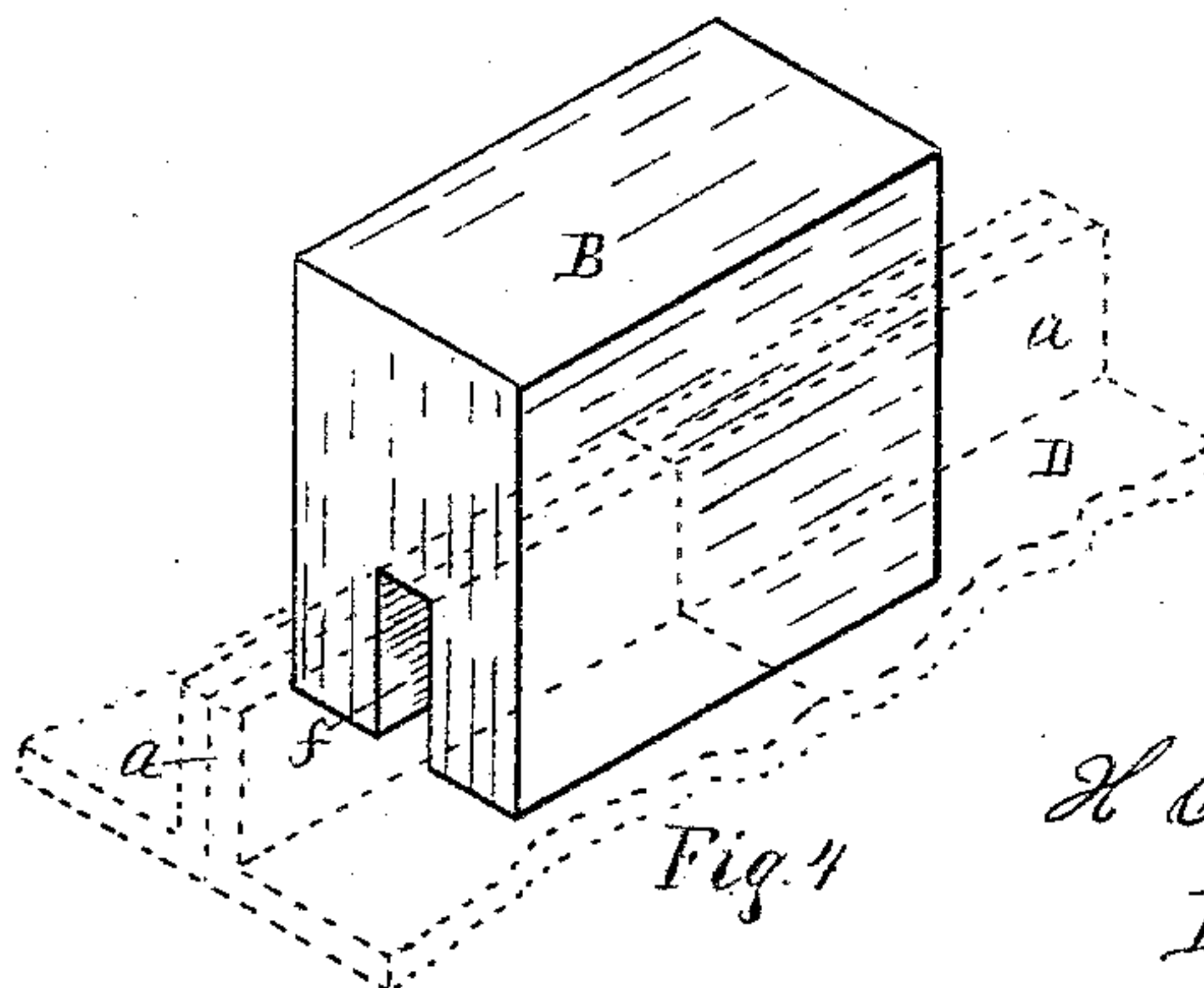
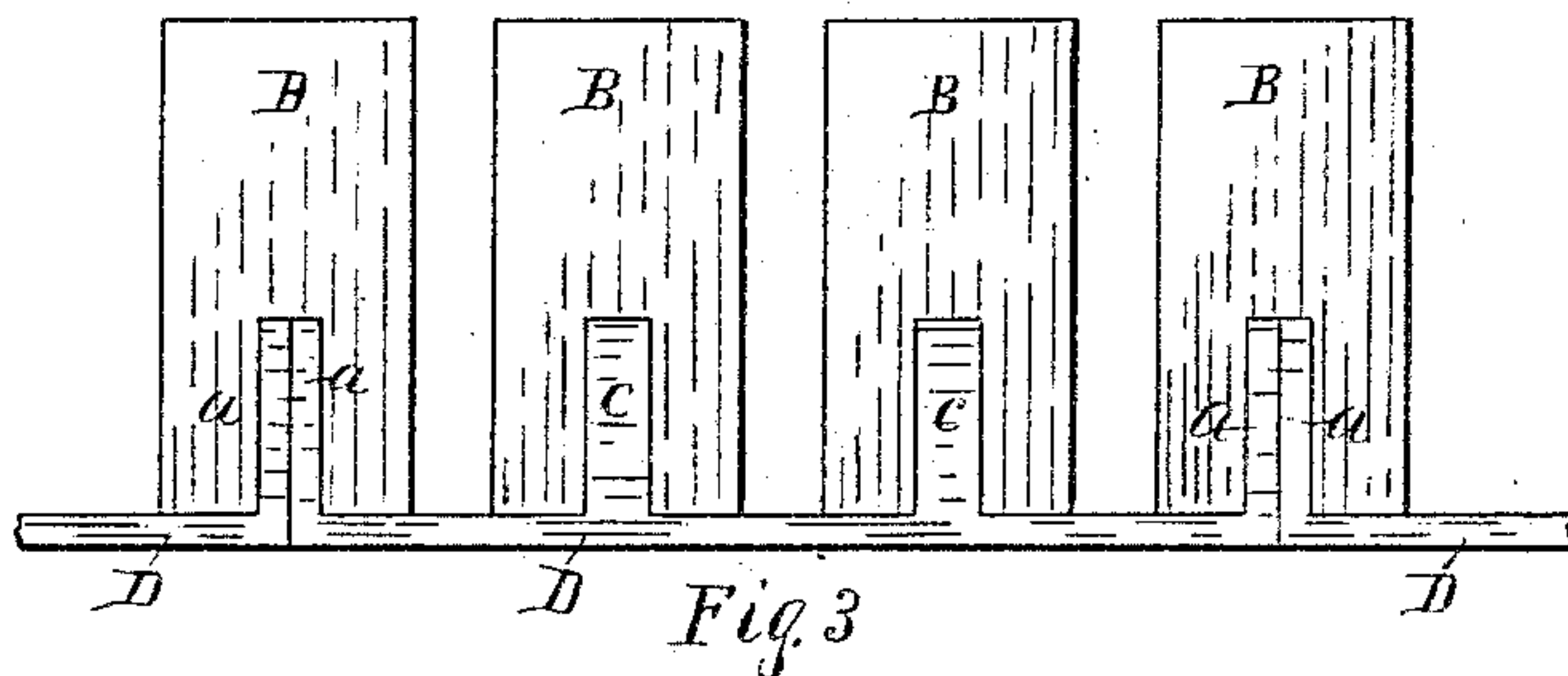
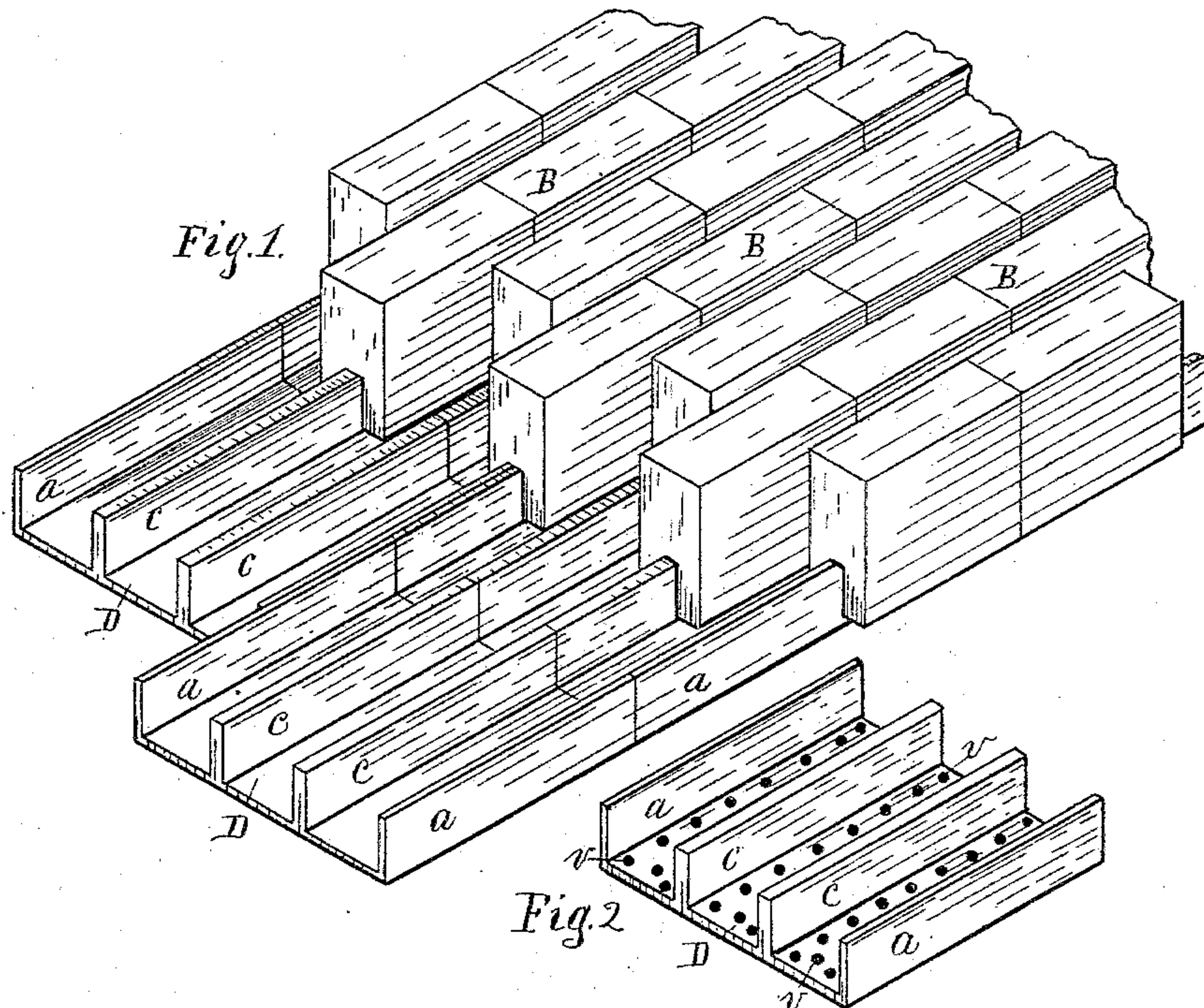
(No Model.)

H. C. UNDERWOOD.

PAVEMENT.

No. 321,403.

Patented June 30, 1885.



Witnesses.  
John C. Perkins  
John H. Chase

Inventor.  
H. Channing Underwood.  
By Lucius C. West.  
att.



# UNITED STATES PATENT OFFICE.

H. CHANNING UNDERWOOD, OF KALAMAZOO, MICHIGAN.

## PAVEMENT.

SPECIFICATION forming part of Letters Patent No. 321,403, dated June 30, 1885.

Application filed October 3, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, H. CHANNING UNDERWOOD, a citizen of the United States, residing at Kalamazoo, county of Kalamazoo, State of Michigan, have invented a new and useful Pavement, of which the following is a specification.

This invention has for its object certain improvements in pavements, substantially as hereinafter described and claimed.

The invention consists in a series of base-plates provided with upwardly-extending ribs, and series of pavement-blocks provided with a groove or recess in the under side, adapting said blocks for detachable location over the ribs of the base-plates.

In the drawings, forming a part of this specification, Figure 1 is a perspective broken view of the pavement; Fig. 2, a perspective of a base-plate; Fig. 3, an end elevation enlarged, and Fig. 4 is an enlarged view of a pavement-block and broken base-plates in dotted lines.

The base-plates D D are made of any suitable material. They may be cast out of metal, and the ribs cast integral with them; or, if preferred, the plates and ribs *a c* may be formed by pressing or striking with a die from sheet metal. The two outside ribs, *a a*, are made thinner than the center ribs, *c c*. The object of this is illustrated in Fig. 1, at the central portion of the figure, at the outsides of Fig. 3, in which the recesses in the under side of the blocks B B contain the ribs *a a* of two contiguous plates, D D, thus locking the plates together in a detachable manner. In constructing the pavement it is designed to so proportion the size of the plates D and blocks B that the latter will break over the joint where the abutting ends of the ribs come together, (Fig. 4,) thus locking a row of plates from lateral displacement. The blocks are made of such a thickness that a space is left between them in which gravel or other material may be filled; but this is a matter of choice, as the blocks may be made of such a thickness that the sides thereof will engage each other when driven to place.

In Fig. 2 a base-plate is shown having perforations *r r* through the bottom, to allow water or dampness which may be on the pavement to leach through into the ground below the plate. Such a pavement is comparatively cheap, owing to its simplicity and convenience in laying. It can be readily taken up and relaid, which is important in case of ditching through a street. By removing a row of pavement-blocks, B B, from the abutting ribs *a a* of the plates D, and removing another row of blocks a sufficient distance therefrom to represent the space of ground to be uncovered, and then removing the intermediate blocks, a row or rows of plates may be readily taken up, and after the ditch is refilled the pavement can be relaid as perfect and complete as before, with but little use of time and skill.

The size of the base-plates D and pavement-blocks B is a matter of choice and convenience. It will, however, be of advantage to make the parts of a size convenient for handling and for shipping from the factory.

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

1. In a pavement, a series of pavement-blocks having grooves in the under side, and a series of ribbed base-plates, having the ribs on the sides contiguous to each other, substantially half as thick as the width of the grooves in the blocks, whereby the base-plates are detachably locked together by the blocks fitting over said ribs, substantially as set forth.

2. In a pavement composed of base-plates and pavement-blocks, the base-plates having perforations through them, for the object stated, substantially as set forth.

In testimony of the foregoing I have hereunto subscribed my name in presence of two witnesses.

H. CHANNING UNDERWOOD.

Witnesses:

GEO. McDONALD,  
S. D. O'BRIEN.