

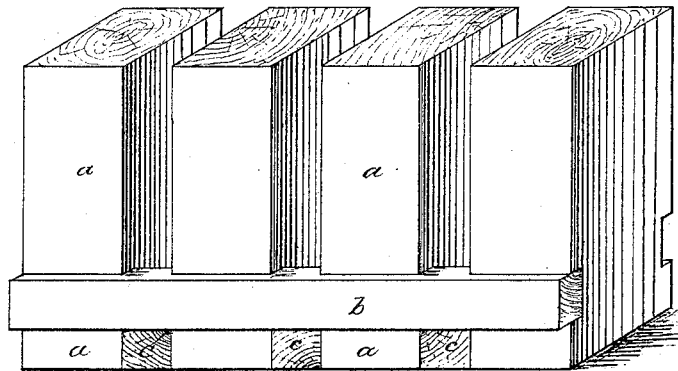
H. E. PAINE.

Improvement in Wood Pavements.

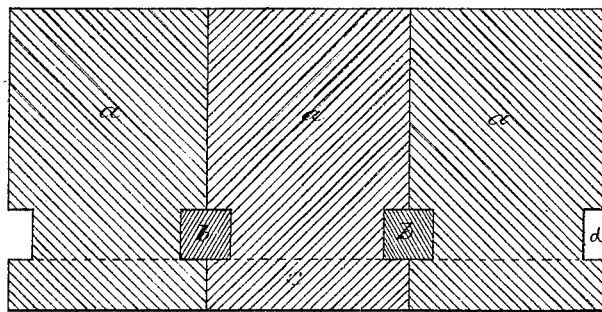
No. 114,190.

*Fig. 1.*

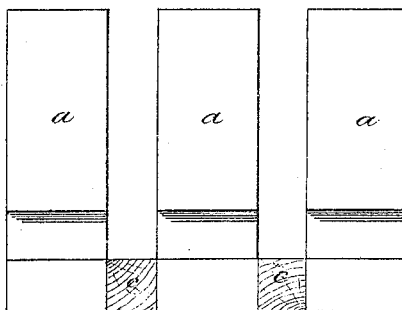
Patented April 25, 1871.



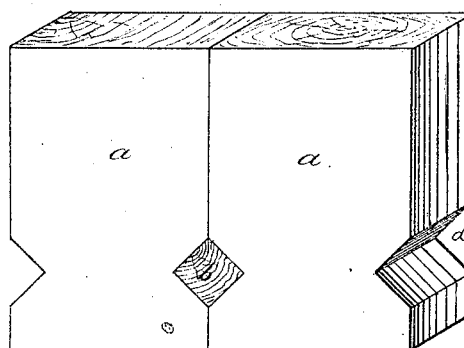
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses:  
E. V. Callan  
S. M. Gregory

Inventor:  
Halbert E. Paine.

# United States Patent Office.

HALBERT E. PAINE, OF MILWAUKEE, WISCONSIN.

Letters Patent No. 114,190, dated April 25, 1871.

## IMPROVEMENT IN WOOD PAVEMENTS.

The Schedule referred to in these Letters Patent and making part of the same.

I, HALBERT E. PAINE, of the city and county of Milwaukee, in the State of Wisconsin, have invented certain Improvements in Wood Pavements, of which the following is a specification.

The invention relates to the combination, with the ordinary wooden paving-blocks, of the wooden strips or pieces which resist their lateral, and those which resist their vertical displacement, in such manner that the former pieces shall separate the sides of the blocks at their bases, the blocks being placed with the edges in contact, and with the grain of the wood in a vertical position; and the latter pieces shall cross the former at right angles above, and in contact with them, and shall pass through the contiguous edges of the vertical blocks, thus connecting said blocks together.

The separating and connecting pieces will be of any convenient lengths.

The object of my invention is to resist both the vertical and lateral displacement of the blocks, by distributing any weight or force, sustained by a single block, among many blocks and separating pieces; also to prevent the separating pieces from being forced upward by pressure of the blocks upon a foundation of sand, gravel, or earth; also to place the openings in the contiguous edges of the blocks so far above the bases of the blocks as to give the parts of the blocks below the openings sufficient strength to resist any force or weight applied to the blocks; also to place the pieces separating the sides of the blocks so low as to interfere as slightly as possible with the filling of the spaces between the sides of the blocks with gravel and tar, concrete, or other material.

### General Description.

*a a a* are the paving-blocks, with the grain of the wood in a vertical position.

*c c c* are the separating-pieces, which rest upon the foundation, whether of sand, gravel, earth, wood, or other material, between the sides of the vertical blocks *a a a*.

*b b b* are the connecting-pieces, which cross *c c c* at right angles and rest upon them, and which pass through the openings *d d d* in the contiguous edges of the blocks *a a a*.

The cross-sections of the connecting-pieces are preferably squares, with sides either inclined as in fig. 4 or horizontal and vertical as in fig. 2, but may be of any other convenient form.

The filling substance between the sides of the blocks may be of gravel and tar, or concrete, or of any other equivalent or known material.

I claim as my invention—

1. A wooden pavement consisting of blocks and of connecting and separating-pieces crossing each other substantially as and for the purpose described.

2. A wooden pavement, in which the blocks are provided, at their contiguous edges, with openings to receive connecting-pieces, and are separated, at their sides, by separating-pieces lying below and in contact with the connecting-pieces; and the spaces between the sides of the blocks are filled with gravel and tar, concrete, or other equivalent substance.

Witnesses: HALBERT E. PAINE.

G. W. GREGORY,

E. V. CALLAN.