

# A. R. McNair Wood Pavement.

N<sup>o</sup> 94,019.

Patented Aug. 24, 1869.

Fig. 1

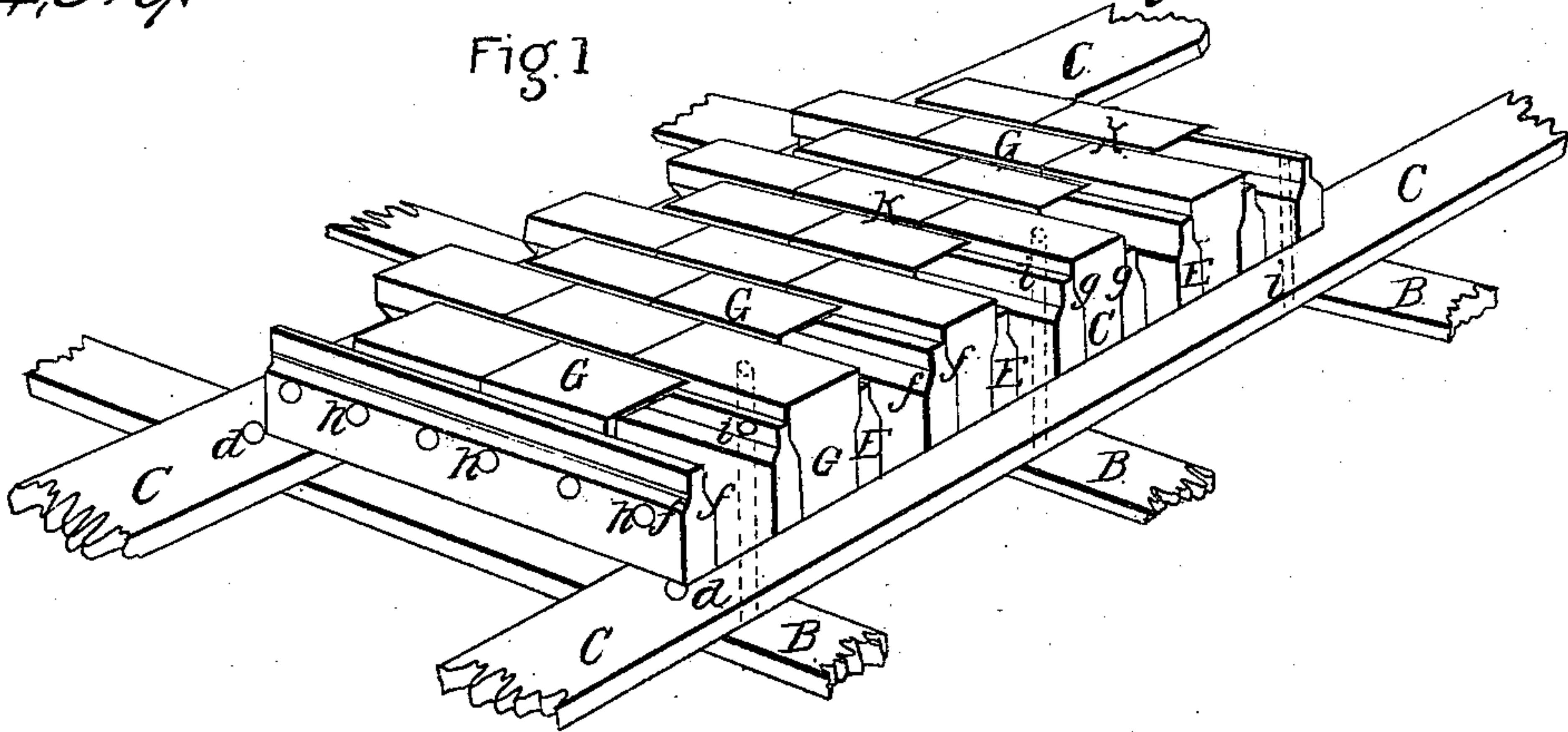


Fig. 2.

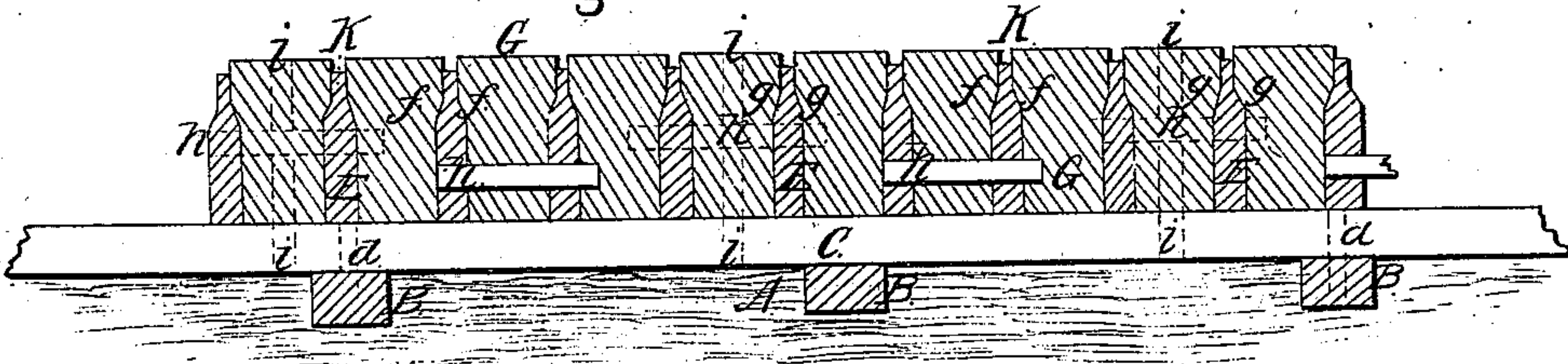


Fig. 3.

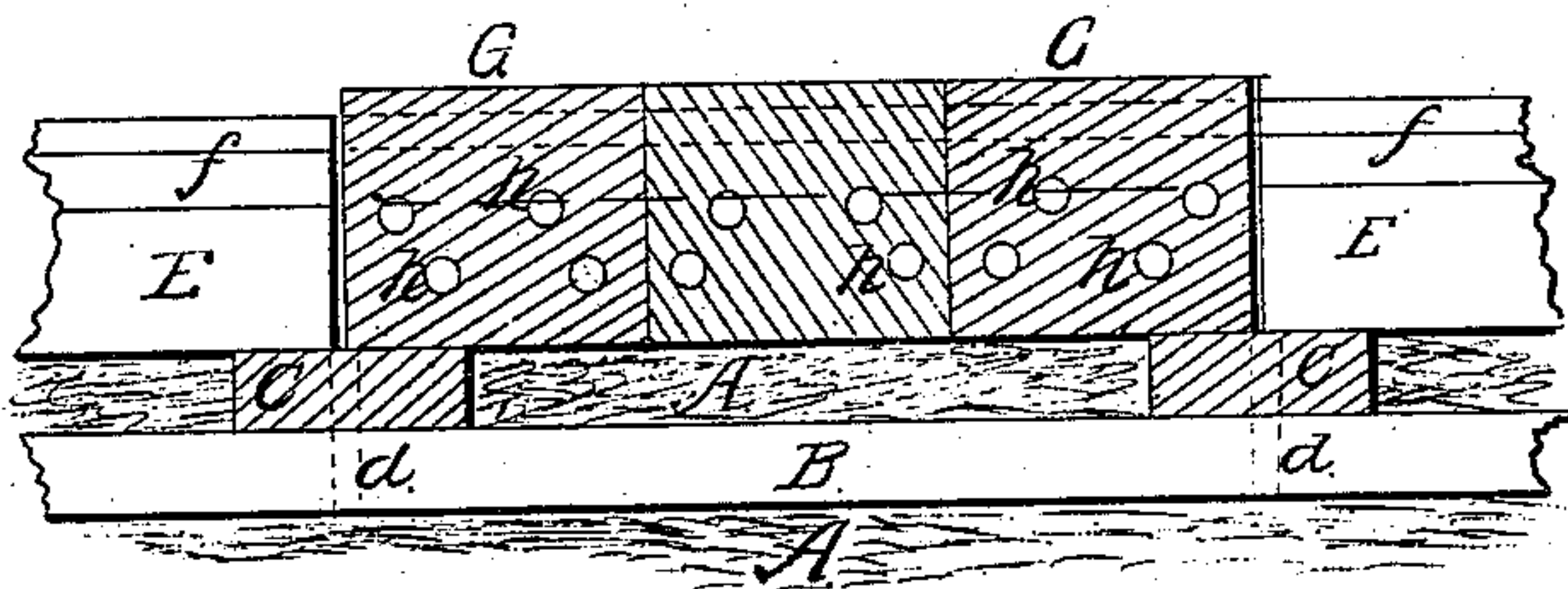


Fig. 4

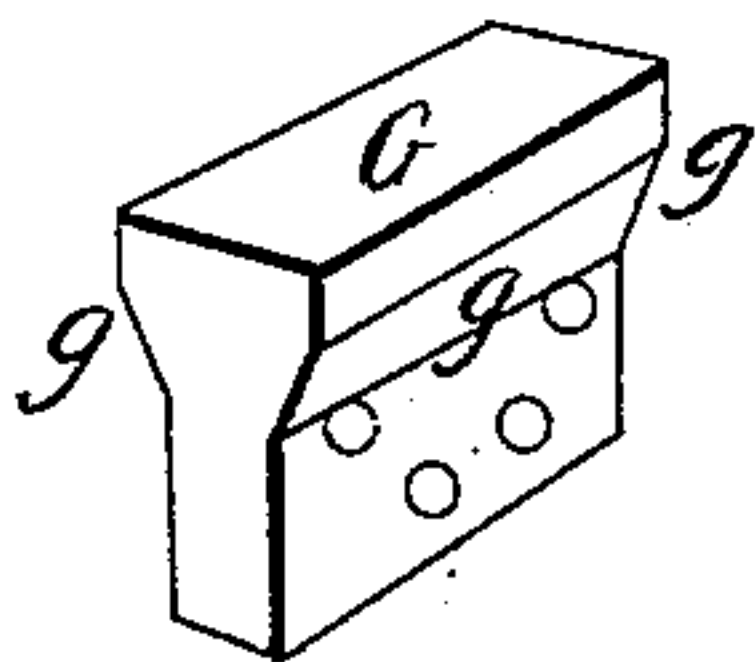


Fig. 5.

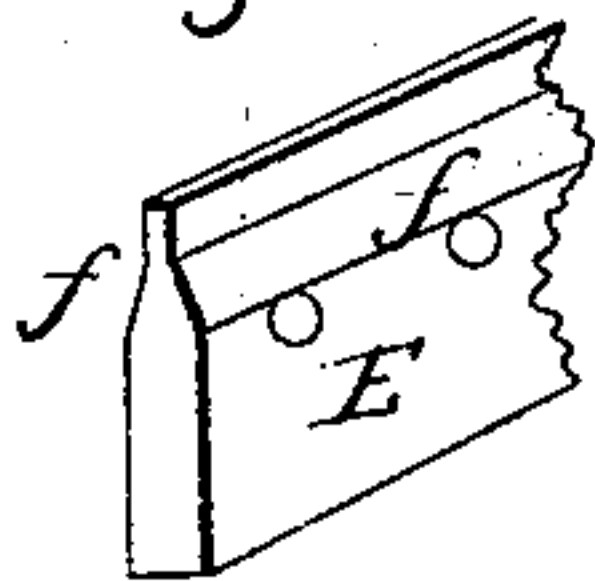
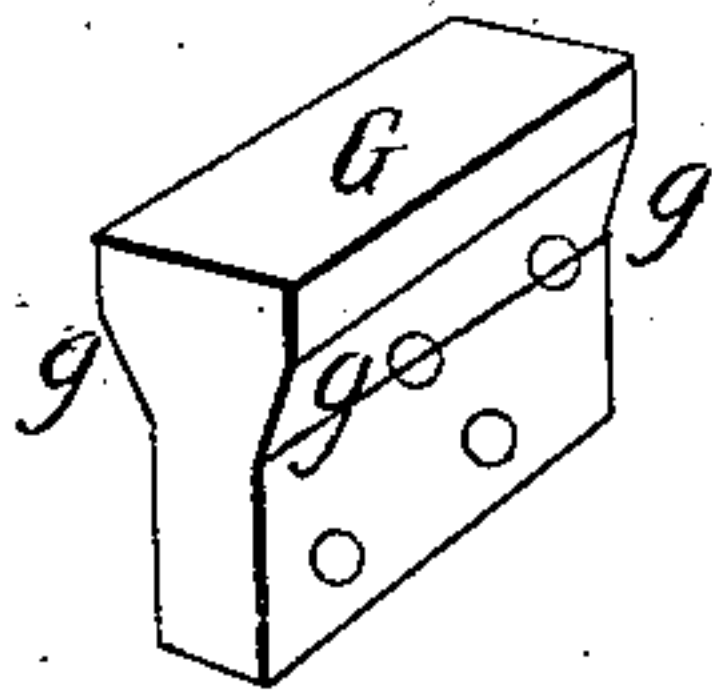


Fig. 6.



Witnesses:

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Inventor:

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# United States Patent Office.

ANTOINE R. MCNAIR, OF NEW YORK, N. Y.

Letters Patent No. 94,019, dated August 24, 1869.

## IMPROVED WOOD PAVEMENT.

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

To all whom it may concern:

Be it known that I, ANTOINE R. MCNAIR, of the city, county, and State of New York, have invented a new and useful Improvement in Wooden Pavements for streets and other thoroughfares; and do hereby declare that the following is a general description thereof, reference being had to the accompanying drawings, making part of this specification, of which—

Figure 1 represents a perspective view of a portion of a wooden pavement constructed in accordance with my invention;

Figure 2, a longitudinal, and

Figure 3, a transverse section of same.

Figures 4 and 6 are views of a wooden paving-block as removed from the pavement, and

Figure 5, a view of one of the block-supporters.

This invention, relating to an improvement in wooden pavements, I construct in the following manner, viz:

In the first place, I lay an open frame-work of wood on a bed of concrete, sand, or clay, filling in with and tamping the said concrete, sand, or clay firmly, so as to form a hard and even surface with the upper surface of the open frame-work. I next lay on and transversely of said frame-work, a supporting-piece or bridge, having shoulders, on which the paving blocks, having corresponding recesses, rest, and I fasten the paving-blocks to the supporting-piece, by wooden treenails, driven horizontally, and so on, alternately laying a support-piece and a row of paving-blocks, breaking joints in the laying of the blocks, and at intervals I fasten the paving, so constructed, to the frame, by treenails, driven vertically into the paving-blocks and frame-work, and finally I run into the joints of the pavement a sufficient quantity of fluid coal-tar, or its equivalent, and over the surface of the pavement I strew a dressing of fine, sharp sand.

I would remark that the wood used in my improved pavement, I intend to prepare, by subjecting the same to a timber-preserving process, and thus I produce a noiseless roadway, cheap and simple in construction, impervious to the elements, and in which iron or other corroding substance is dispensed with.

In the drawings—

A indicates the concrete, sand, or clay foundation.

B, the ties.

C, the stretchers laid on the ties, and fastened to the same by wooden treenails *d*, said ties and stretchers forming the wooden frame-work, on which are laid the wooden bridge-pieces E, which span the spaces between and over the stretchers C.

These bridges are formed with chamfered shoulders *f f*, for reception and support of the paving-blocks G, which have corresponding chamfered recesses *g g*, which rest on the said shoulders of the bridges; the bridges and paving-blocks being fastened together by wooden treenails *h h*, driven horizontally into bridges and paving-blocks, as shown particularly in fig. 2, and the said paving-blocks are, at intervals, fastened to the stretchers, by treenails *i*, driven vertically into the blocks and stretchers.

The bridges do not extend up to the surface of the paving, for the purpose of leaving a groove, *k*, or foot-hold for draught-animals, and at the intersection of streets, the paving-blocks may be so prepared as to leave a similar but transverse recess for said purpose.

This pavement may be prepared at the workshop in sections of convenient size, (see fig. 1,) and laid on the streets with rapidity, causing very little interruption to traffic, and forms a substantial and yet sufficiently elastic roadway, and is easily repaired.

I disclaim shouldered paving-blocks resting on supports, and the joining of them to said supports by treenails.

What I claim as my invention, and desire to secure by Letters Patent, is—

The construction and arrangement of the stretchers C C, chamfer-shouldered bridge-pieces or supports E E, and recessed or chamfer-shouldered paving-blocks G G, secured to the said stretchers by vertical, and to the supports by horizontal treenails, substantially as herein specified.

In testimony whereof, I have hereunto set my signature, this 20th day of April, A. D. 1869.

A. R. MCNAIR.

Witnesses:

ARTHUR NEILL,

ARTHUR B. WILLIAMS.