

# C. W. Stafford. Pavement.

N<sup>o</sup> 75309

Patented Mar. 10, 1868.

Fig. 1.

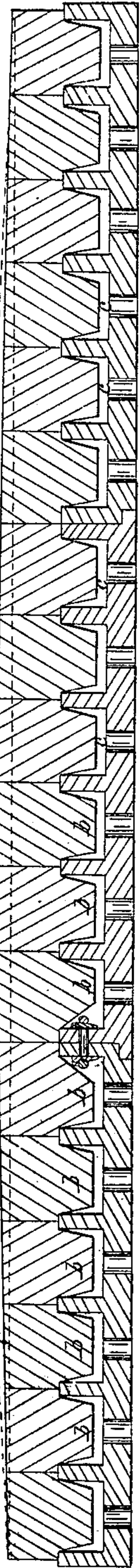
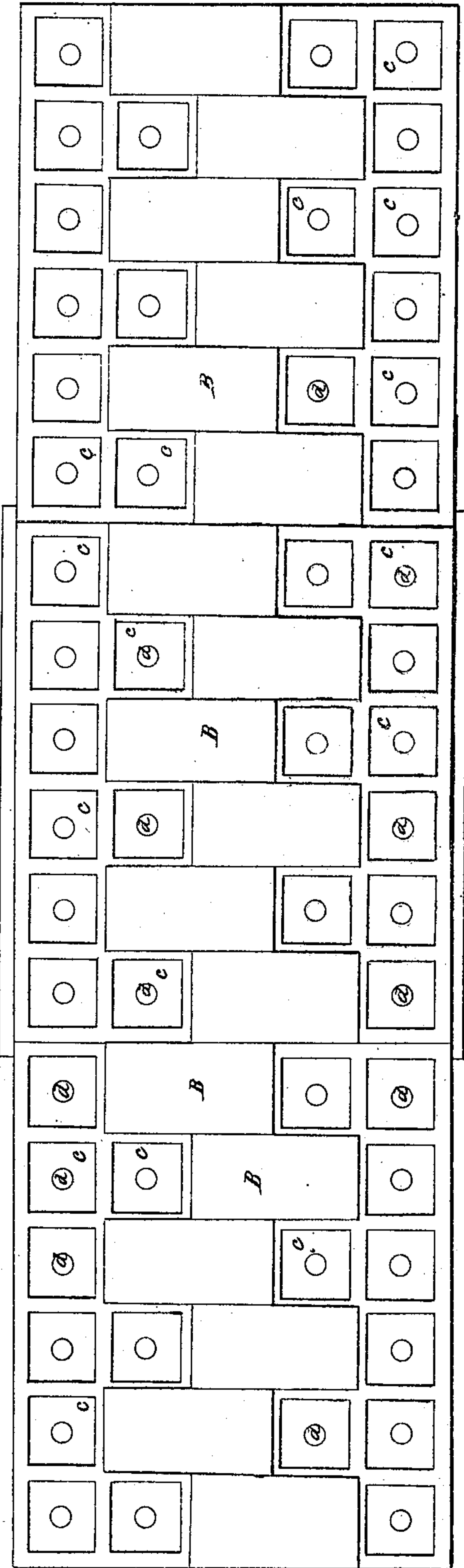


Fig. 2.



WITNESSES.

Geo A Morrison  
N. R. Ellsworth

Attest  
for C. W. Stafford  
By O. K. Knight

C. W. Stafford.

Pavement.

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Fig. 3.

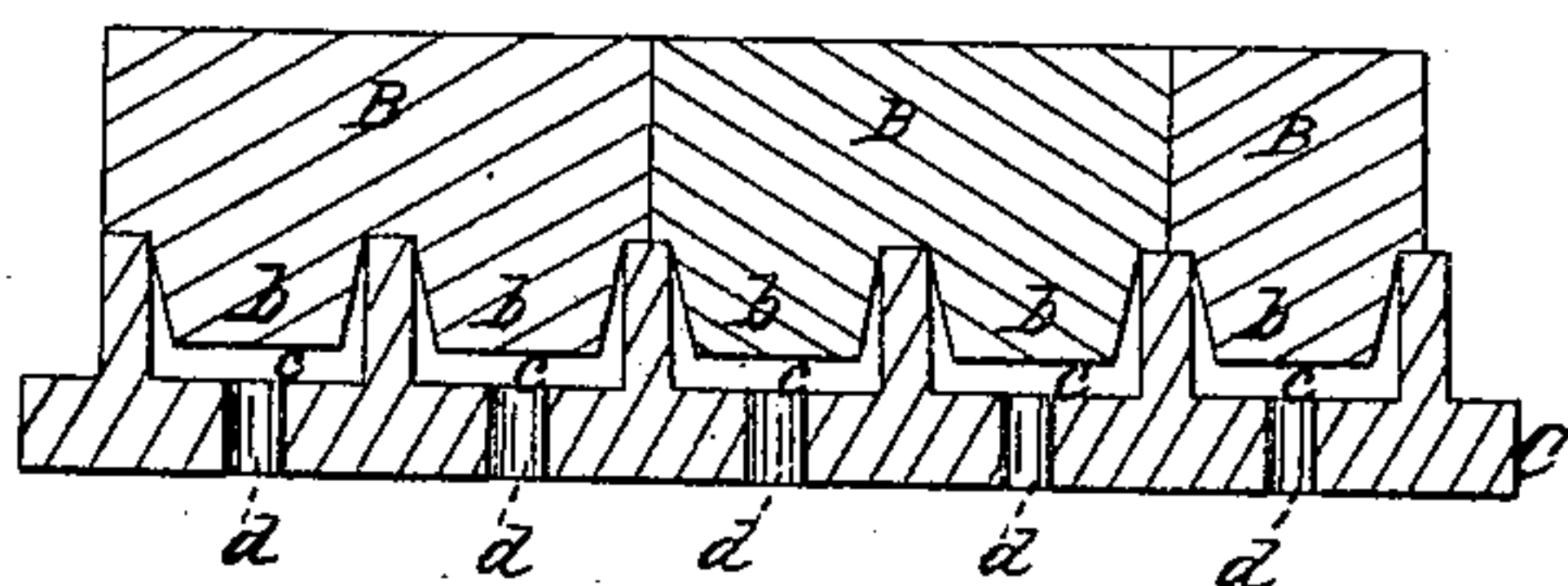


Fig. 4.

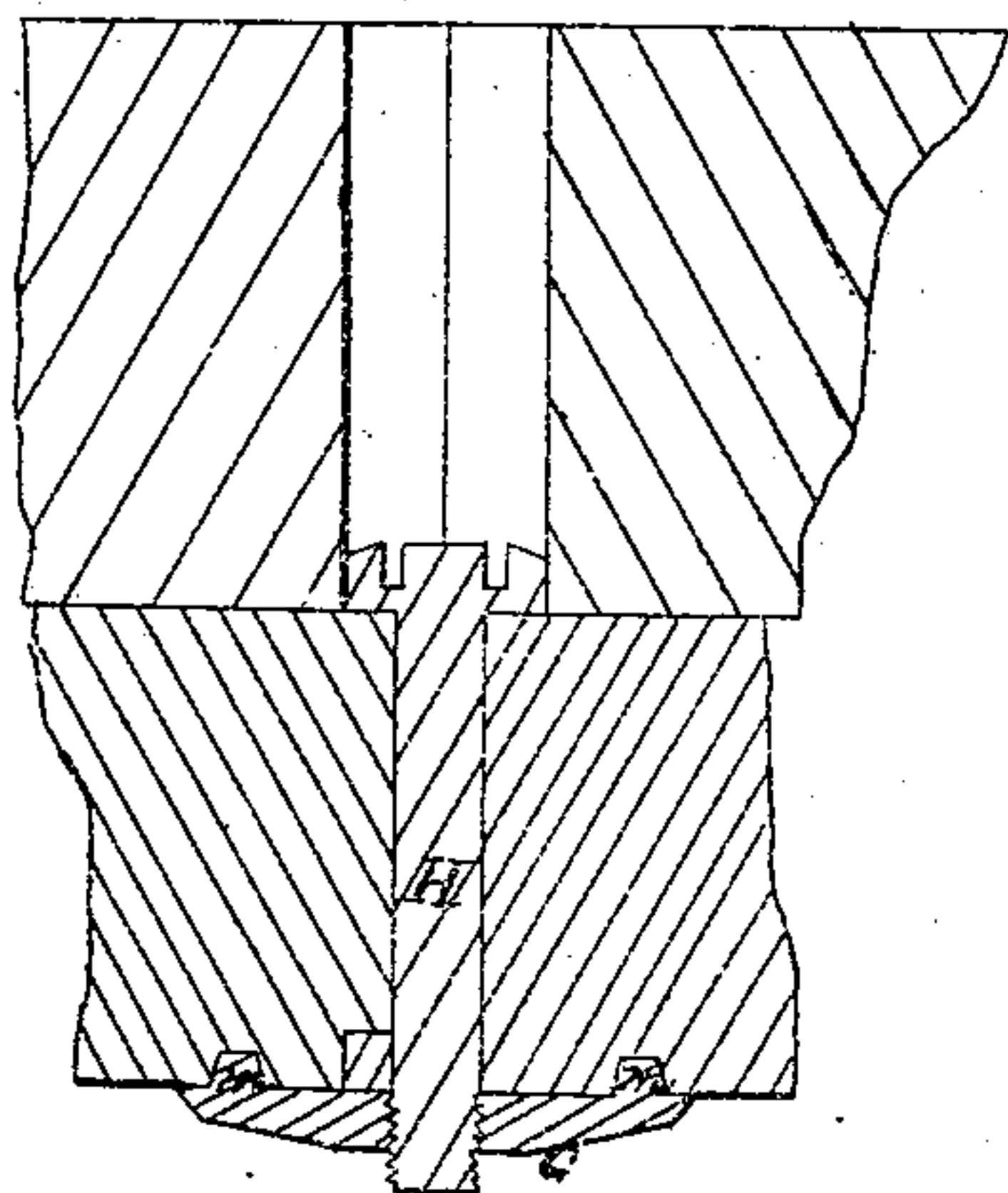


Fig. 6.

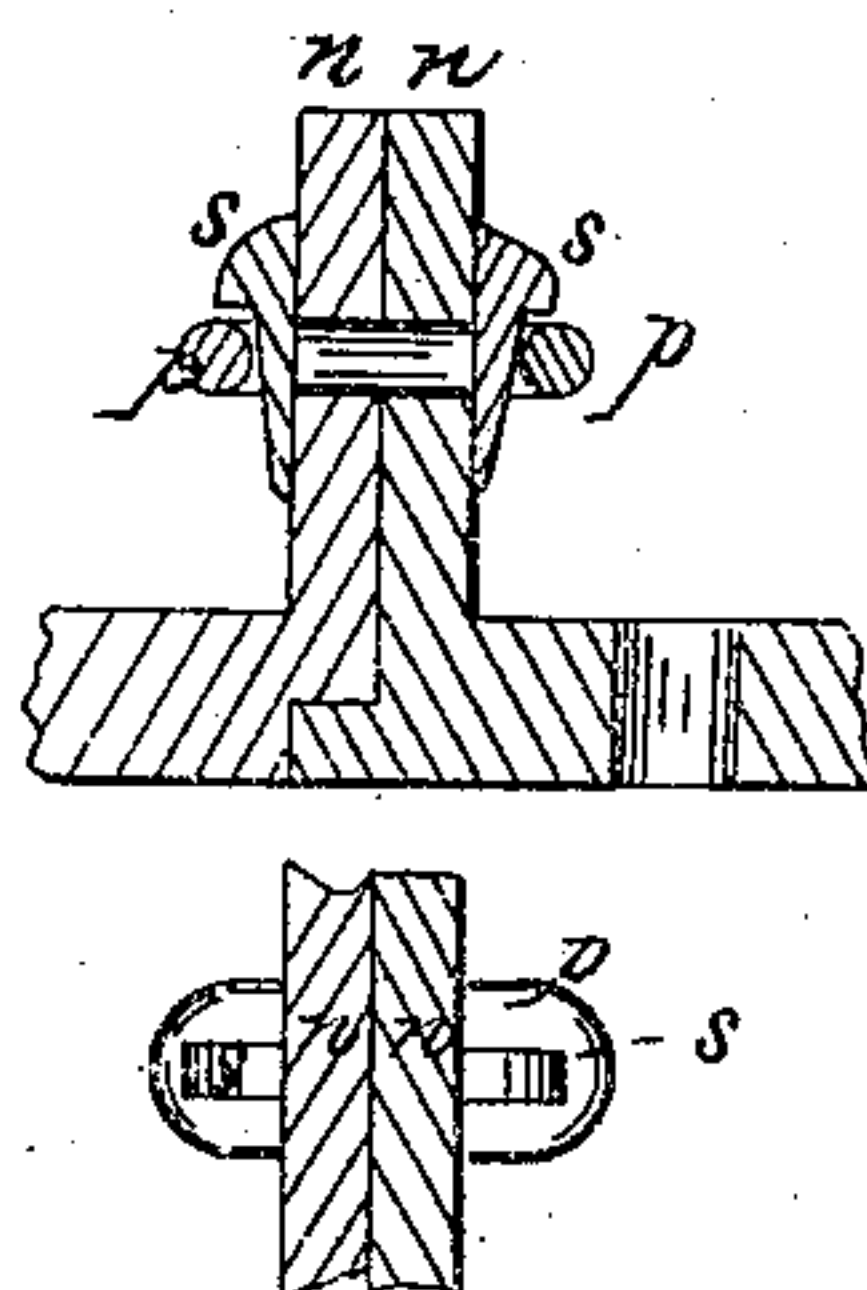
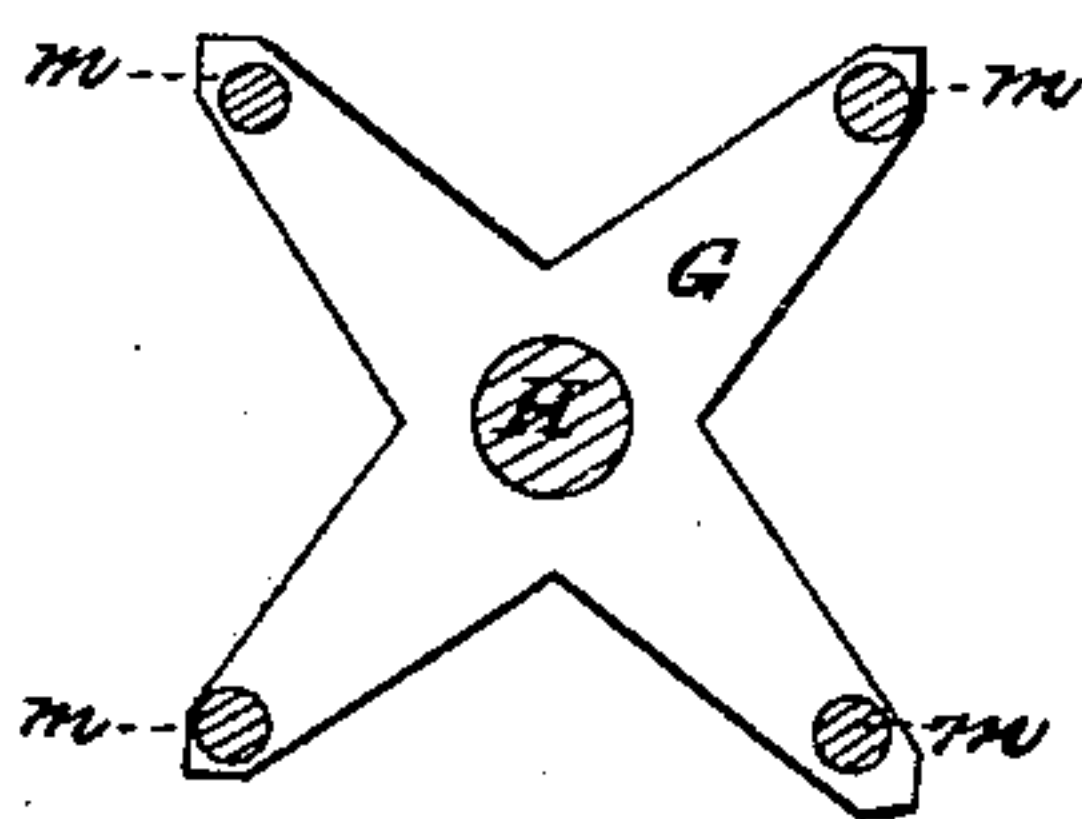


Fig. 5.



WITNESSES.

Geo A Morrill  
N. K. Ellsworth

Attest  
For C. W. Stafford  
By O. Knight



# United States Patent Office.

CHARLES W. STAFFORD, OF SAYBROOK, CONNECTICUT.

*Letters Patent No. 75,309, dated March 10, 1868.*

## IMPROVEMENT IN PAVEMENTS.

*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, CHARLES W. STAFFORD, of Saybrook, in the county of Middlesex, and State of Connecticut, have invented a new and useful Improvement in Pavement; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification, and in which similar letters indicate like parts.

Figure 1 is a sectional view of a portion of paving transversely of the street.

Figure 2 is a plan or top view.

Figure 3 is a vertical section of a portion on a line at right angles to the section, fig. 1.

Figure 4 is a sectional view of a device for locking adjacent sections of the metallic frame together.

Figure 5 is a plan of the four-armed spanner, by which the adjacent sections are gripped together.

Figure 6 shows views of the mode of uniting adjacent sections by their upward-projecting flanged edges.

The foundation of this paving is made of iron, whose upper surface shows a regular arrangement of square sockets, occupied by the lower ends of rectangular blocks, whose upper faces form the surface of the street.

The under side of each block is divided, having two projections *b b*, which occupy two adjacent sockets *c c*, in foundation-frame C. The upper surface of each paving-block B is oblong, and the joints are broken, as shown in fig. 2.

In the middle of each of the square sockets *c c* is a hole, *d*, to admit the passage downwards of water into the porous substratum on which the iron foundation-frames are laid.

The shape of the blocks, as seen in vertical section, is shown in figs. 1 and 3, in which the sides of the sockets appear like flanges projecting upward from the base, the sides of the blocks B being tapered, to enable them to set in the sockets *c*, and resting by their shouldered sides upon the upper edges of the sockets *c*, each block B occupying two sockets, as seen more clearly in figs. 2 and 3.

The blocks in the centre of the street are made higher than those towards the curb-stone, as seen in fig. 1, where the straight dotted line shows a level, and the surface of the street has a camber or slightly arched form, draining the water to each side.

Figs. 4 and 5 show one mode of attaching the foundation-frames C, and consists of a four-armed spanner and bolt. The spanner G is operated by a screw, H, introduced from above, and its four projections *m m* enter cavities in the under sides of the adjacent blocks, and hold them together as the spanner is drawn up by the bolt H.

Fig. 6 shows another mode of attaching the foundation-frames to each other by means of flanges *n n*, links *p*, and keys *s s*. The flanges rest against each other; the link passes through corresponding holes in each end; the keys being driven down in the link, the fastening is complete.

Each fastening-arrangement is so made as to be readily reached by removing a block, and thus the pavement may be removed for the purpose of reaching the water or gas-pipes, &c.

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

1. The arrangement of the oblong blocks, decreasing in depth from the centre to the sides, so as to form a camber in the street, while resting on a level metallic base, C.

2. In combination with the base of a sectional pavement, I claim the spanner G, and screw H, operating as described.

3. I claim the combination and arrangement of the flanges *n n*, link *p*, and keys *s s*, substantially as and for the purpose described.

To the above specification of my invention, I have set my hand, this 20th day of February, 1867.

C. W. STAFFORD.

Witnesses:

WM. F. McNAMARA,

S. H. WALES.