

J. J. SCHILLINGER.
CONCRETE PAVEMENT.

No. 105,599.

Fig. 1. Patented July 19, 1870.

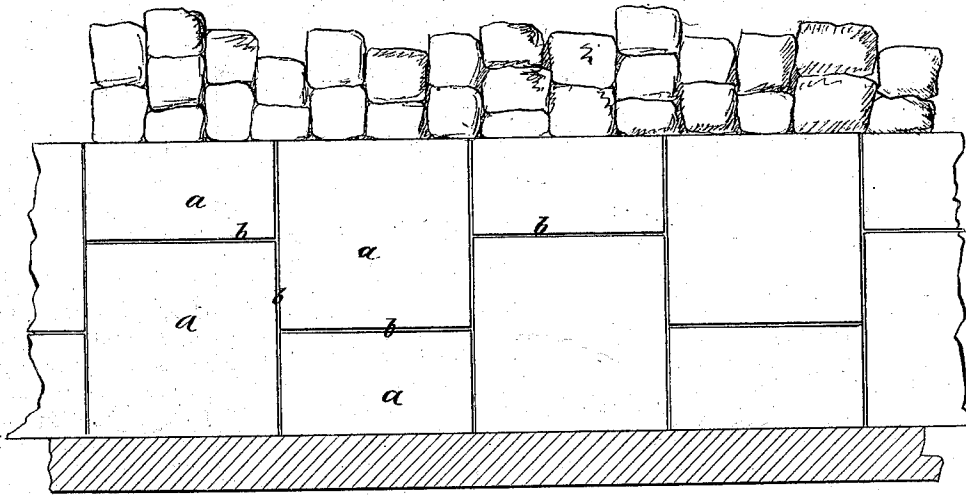
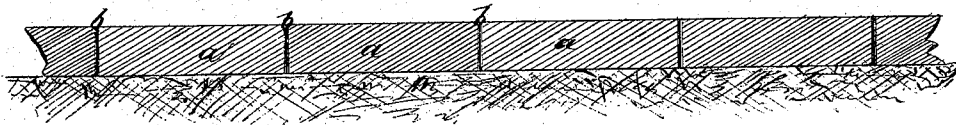


Fig. 2.



Witnesses:
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Attys

UNITED STATES PATENT OFFICE.

JOHN J. SCHILLINGER, OF NEW YORK, N. Y.

IMPROVEMENT IN CONCRETE PAVEMENTS.

Specification forming part of Letters Patent No. 105,599, dated July 19, 1870.

To all whom it may concern:

Be it known that I, JOHN J. SCHILLINGER, of the city, county, and State of New York, have invented a new and useful Improvement in Concrete Pavements; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents my pavement in plan view. Fig. 2 is a vertical section of the pavement.

This invention relates to pavements for sidewalks and other purposes; and consists in combining, with the joints of concrete pavements, strips of tar, paper, or equivalent material, arranged between the several blocks in such a manner as to produce a suitable tight joint, and yet allow the blocks to be raised separately, without affecting or injuring the blocks adjacent thereto.

In carrying out my invention I form the concrete by mixing cement with sand and gravel, or other suitable materials, to form a suitable plastic composition, using about the following proportions: One part, by measure, of cement; one part, by measure, of sand; and from three to six parts, by measure, of gravel; using sufficient water to make the mixture plastic; but I do not confine myself to any proportions for making the concrete composition. While the mass is plastic I lay or spread the same upon the foundation or bed of the pavement, either in molds or between movable joists, of the proper thickness, so as to form the edges of the concrete blocks *a*, &c. When the block *a*

has been formed, I take strips of tar-paper, *b*, of a width equal or almost equal to the height of the block, and place them up against the edges of the block in such a manner that they form the joints between such block and the adjacent blocks. After completing one block, *a*, I place the tar-paper *b* along the edge where the next block is to be formed, and I put the plastic composition for such next block up against the tar-paper joint, and proceed with the formation of the new block until it is completed. In this manner I proceed in making all the blocks until the pavement is completed, interposing tar-paper between their several joints, as described. The paper constitutes a tight water-proof joint, but it allows the several blocks to heave separately, from the effects of frost, or to be raised or removed separately, whenever occasion may arise, without injury to the adjacent blocks. The paper does not adhere, when placed against the edge of the fully-formed block, and, therefore, the joints are always free between the several blocks, although adherence may take place between the paper and the plastic edges of the blocks which are formed after the paper joints are set up in place.

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

The arrangement of tar-paper or its equivalent, between adjoining blocks of concrete, substantially as and for the purpose described.

This specification signed by me this 15th day of June, 1870.

JOHN J. SCHILLINGER.

Witnesses:

W. HAUFF,
C. WAHLERS.