

J. J. SCHILLINGER.
CONCRETE PAVEMENT.

No. 111,879.

Patented Feb. 14, 1871.

Fig. 1.

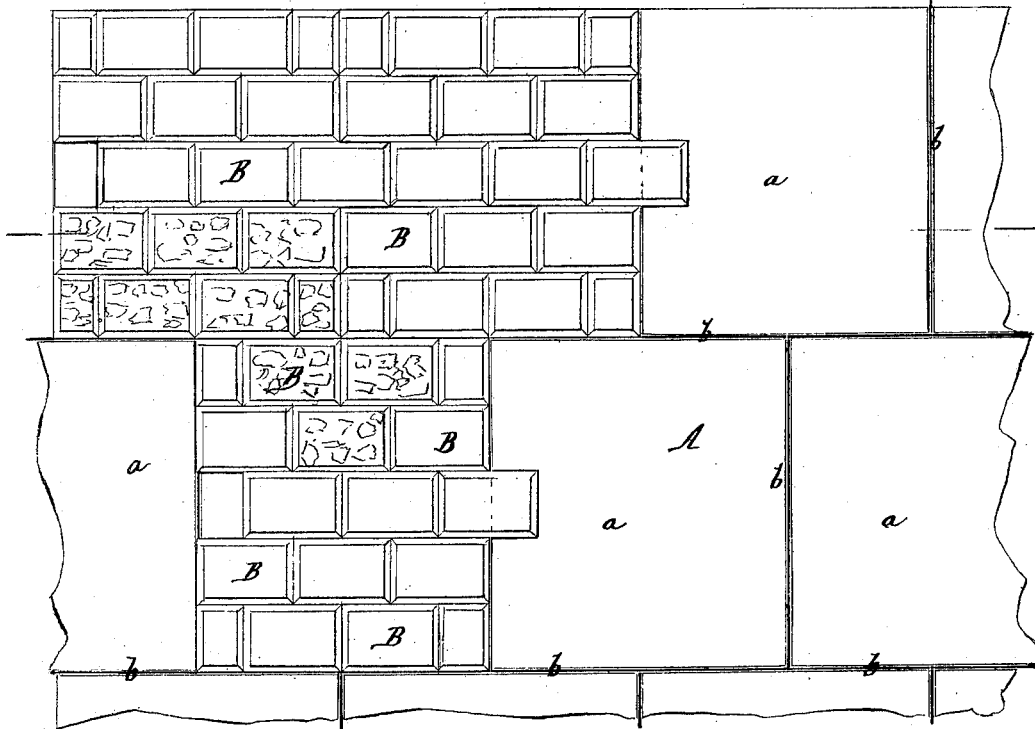
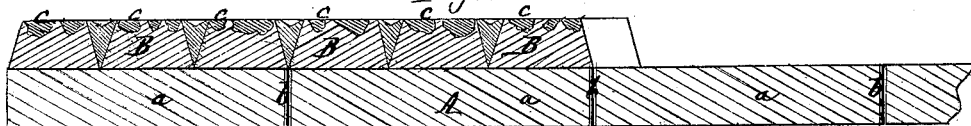


Fig. 2.



Witnesses.

E. F. Mastenhuber

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

Letters Patent No. 111,879, dated February 14, 1871.

IMPROVEMENT IN CONCRETE 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, JOHN J. SCHILLINGER, of the city, county, and State of New York, have invented a new and improved Concrete Pavement; 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 a plan or top view of this invention.

Figure 2 is a vertical section of the same.

Similar letters indicate corresponding parts.

This invention relates to a pavement which consists of a concrete sub-bed and concrete blocks. The sub-bed is made in sections separated from each other by strips of paper interposed between the adjoining edges, and the pavement-blocks are molded of cement, by placing broken stones in the mold and pouring the cement over them so that, when the block is turned out of the mold, its upper surface is formed by the broken stones intermixed with cement. These pavement-blocks are united with the sub-bed either by placing them thereon before the sub-bed has set or by putting a fresh layer of cement on the sub-bed and setting the blocks thereon. The crevices existing between the blocks are filled up with cement, and by these means a pavement is produced which presents a good foothold for draft animals, which is firm and durable, and which, being laid in sections, can readily be taken up and relaid as circumstances may demand.

In the drawing—

The letter A designates the sub-bed of my pavement, which is made of cement, and laid in sections *a*, which are separated from each other by strips *b* of paper or other suitable material, so that each section is free to move up or down independent of the adjoining sections, and the bed is prevented from cracking by the changes of the temperature, and, furthermore, each section can be easily taken up without disturbing the adjoining sections.

On this sub-bed are placed the pavement-blocks B, which are made of cement, with pieces *c* of broken stones imbedded in their upper surfaces, so that, when the blocks are laid down, their surfaces will soon become rough, the cement filling the interstices between

the broken stones being worked out by the feet of draft animals passing over them, and a pavement is obtained which offers a good foothold to draft animals, and which at the same time is smooth and level. Said blocks may be made in the form of truncated pyramids, as shown in fig. 2, and, after they have been put down, the interstices between them are filled up with cement, or said blocks may be made in the form of parallelepipeds and laid close together, so that no cement is required to fill up the interspaces.

The blocks B are formed in suitable molds and allowed to harden before they are used, and they are united with the sub-bed by putting them down thereon before the cement forming the sub-bed has set; or, if desired, the sub-bed may be allowed to harden and a fresh layer of cement spread thereon to receive the blocks and form the connection between them and the sub-bed.

In laying down the blocks care is to be taken to put them down so as to break joints, and, if desired, one or more blocks may be made to extend across each of the joints between two adjoining sections, so as to bind these sections together.

In taking up the pavement or a portion thereof these binding-blocks have to be removed, and then each section can be readily raised and afterward relaid without difficulty.

I do not wish to claim, in this present application for a patent, the construction of a cement-bed in sections, with paper or other suitable material interposed between the joints, this construction being fully described in Letters Patent granted to me July 19, 1870; but

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

A pavement composed of a concrete sub-bed laid in sections separated from each other by strips of paper or other suitable material interposed between them, and of pavement-blocks formed of cement, with pieces of broken stones imbedded in their surfaces and united to the sub-bed by means of cement, substantially in the manner shown and described.

JOHN J. SCHILLINGER.

Witnesses:

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