(Model.)

E. HILL.

PAVEMENT.

No. 479,002. Patented July 19, 1892.

Fig. 1.

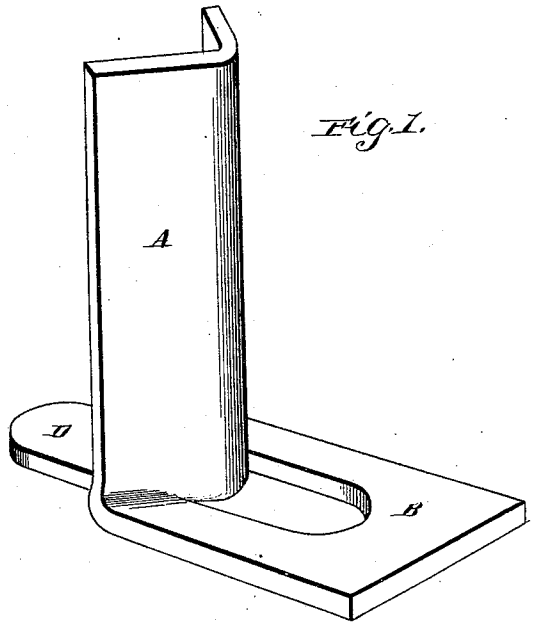


Fig. 2.

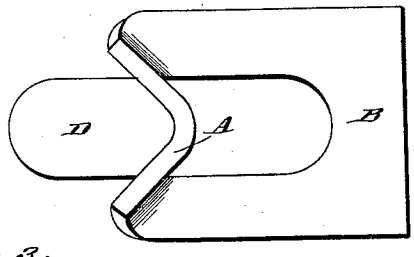


Fig. 3.

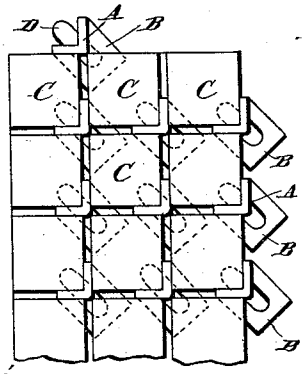
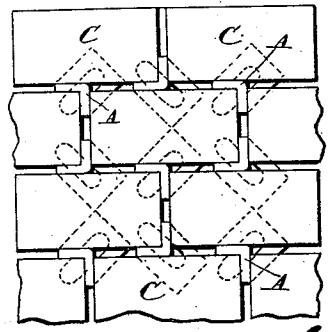


Fig. 4.



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UNITED STATES PATENT OFFICE.

ERNEST HILL, OF SHEFFIELD, ENGLAND.

PAVEMENT.

SPECIFICATION forming part of Letters Patent No. 479,002, dated July 19, 1892.

Application filed September 12, 1891. Serial No. 405,559. (Model.) Patented in England June 7, 1890, No. 8,796.

To all whom it may concern:

Be it known that I, ERNEST HILL, a British subject, residing at Nether Edge, Sheffield, in the county of York, England, have invented a new and useful Improvement in the Construction of Pavements, (for which I have obtained a patent in Great Britain, No. 8,796, bearing date June 7, 1890,) of which the following is a specification.

The object of my present invention is to prolong the life of the roadway by constructing a stud that can be produced in wrought material to give a better grip for the animal's feet and to reduce the cost of manufacture.

My invention is illustrated in the annexed sheet of drawings, in which—

Figure 1 is a perspective elevation of one of the improved studs made of wrought-steel; Fig. 2, a plan of stud; Fig. 3, a plan of roadway with square blocks; Fig. 4, a plan of roadway with oblong blocks.

In carrying my invention into effect I make the studs from bars or plates of wrought-steel, steel-iron, or other wrought material of suitable strength and durable quality, consisting of an upright rectangular part A, resembling a piece of angle-iron and having a base or foot B, made from the same continuous material, bent back at a right angle to the upright A.

In order to obtain a support for the blocks of wood C or other material used to form the roadway, where they fit into the hollow or inside of the angular upright A, and to sustain the said blocks at the required level, also to give a further support to the upright, I partly cut or punch a flap of metal D out of the base B or out of the upright A and turn it into the position shown in the drawings, Figs. 1 and 2, and by the application of force I bring it to a level with the part B and inside the angle of upright and leaving the whole foot level. The studs so constructed are then ready to be used as shown in Figs. 3 and 4; but other arrangements of the studs may be made, as may be preferred.

The base-plates or feet of the studs are embedded in a thin layer of asphalt upon a concrete foundation and the blocks of wood or other material are placed in position, as shown, so that they rest upon the said layer of asphalt and upon a portion of the base or foot of each stud and in order to afford a better grip for the animal's feet. I prefer to allow the studs to project slightly above the face of the blocks—say, for example, one-eighth of an inch.

In Fig. 3 it will be seen that I use square blocks, while in Fig. 4 I use oblong blocks, arranged to break-joint in the manner of brickwork. The interstices or spaces between the blocks, due to the intervening studs, I fill up with pitch or suitable cement.

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

A pavement consisting of a suitable foundation upon which is superposed a series of rectangular blocks connected at their angles by wrought-metal studs having a horizontal base B, an integral tongue D, cut therefrom and bent in opposite direction in the same plane and having the other end of the plate struck up into vertical angular form, substantially as and for the purpose set forth.

ERNEST HILL.

Witnesses:
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