(No Model.)

W. BERRY & P. STUART.

ARTIFICIAL PAVEMENT AND CONDUIT FOR ELECTRIC WIRES.

No. 295,334. Patented Mar. 18, 1884.

FIG. 1.

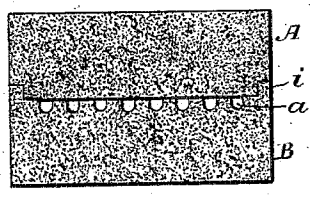


FIG. 2.

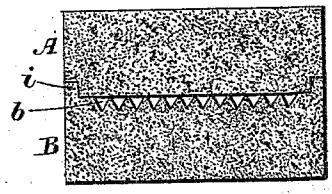


FIG. 3.

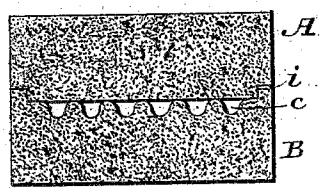


FIG. 4.

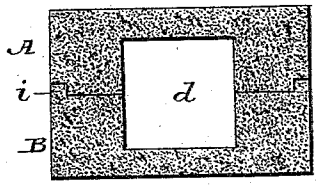


FIG. 5.

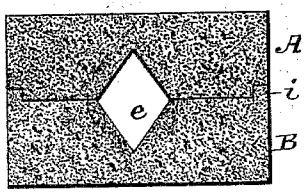


FIG. 6.

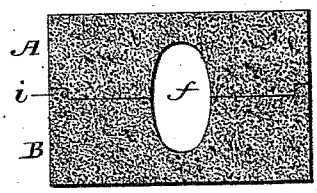


FIG. 7.

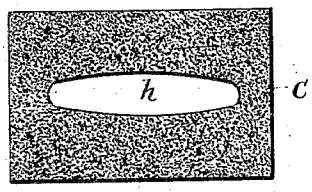
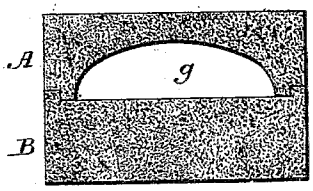


FIG. 8.



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UNITED STATES PATENT OFFICE.

WALTER BERRY AND PETER STUART, OF EDINBURGH, COUNTY OF MID-LOTHIAN, SCOTLAND.

ARTIFICIAL PAVEMENT AND CONDUIT FOR ELECTRIC WIRES.

SPECIFICATION forming part of Letters Patent No. 295,334, dated March 18, 1884.

Application filed September 19, 1883. (No model.) Patented in England April 14, 1883, No. 1,894, and in France October 13, 1883, No. 152,018.

To all whom it may concern:

Be it known that we, WALTER BERRY and PETER STUART, citizens of the United Kingdom of Great Britain and Ireland, residing at Edinburgh, in the county of Mid-Lothian, Scotland, have invented new and useful Improvements in Artificial Pavements and Conduits for Electric Wires, the subject-matter of the improvements being embodied in Letters Patent of the United Kingdom of Great Britain and Ireland granted to us, and bearing date the 14th day of April, 1883, No. 1,894; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the manufacture to which it relates to make and use the same.

This invention relates to "granolithic" artificial paving composition, and is a further development of the inventions for which Letters Patent of the United States No. 248,526, dated the 18th day of October, 1881, and No. 259,059, dated the 6th day of June, 1882, were granted to Peter Stuart, one of the present applicants.

Our invention consists in forming the blocks or slabs for sidewalks or roadways of granolithic paving composition, having beneath their surface grooves, serrations, flutes, channels, and passages, either of diamond, square, or oval shape, or formed hollow, such blocks or slabs thus formed being adapted to receive telegraph and telephone wires, or wires or cables for the transmission of electric currents for lighting or other purposes, under the surface. The blocks or slabs are formed of the required shape, and the granolithic composition is prepared and amalgamated as and in the proportions set forth at page 2, lines 10 to 24, of the specification of Letters Patent of the United States No. 259,059, dated the 6th day of June, 1882, and granted to Peter Stuart, one of the present applicants, and covered by the first claim of the said specification.

In order that the invention may be fully understood, we will proceed to describe it with reference to the accompanying drawings, in which all the figures represent elevations of blocks or slabs of granolithic composition.

Figure 1 shows a lower block or slab having grooves; Fig. 2, serrations; Fig. 3, flutes; Fig. 4, a square-shaped passage, partly in the upper and partly in lower block; Fig. 5, a diamond-shaped passage; Fig. 6, an oval-shaped passage; Fig. 7, a hollow block; Fig. 8, a channel in the upper block.

A may represent upper blocks or slabs formed of granolithic paving composition, and B may represent lower blocks or slabs of the same material. The two parts or pair of blocks or slabs have a series of grooves, *a*, Fig. 1, or serrations *b*, Fig. 2, or flutes *c*, Fig. 3, preferably in the under block or slab; or, as shown in Figs. 4, 5, and 6, the two blocks or slabs are hollowed out, so that when put together they may form a passage of any desired shape in cross-section. In Fig. 4 the passage is shown of square shape, *d*, or diamond shape, *e*, Fig. 5, or oval shape, *f*, Fig. 6. The arched channel *g*, Fig. 8, may be wholly in the upper block or slab. In Fig. 7 is shown a hollow block or slab, *c*, in one piece, having an opening, *h*, through it in the form of a flattened ellipse. The two blocks A and B may be joined by a rabbet or other suitable joint, *i*, and cemented together. These blocks or slabs are primarily intended for use as means for providing conduits for electric wires, but may be utilized for other useful purposes to which their conduits adapt them.

We have found, after extensive experimental tests, that the granolithic composition is a most perfect insulator for electric wires, and we have adapted this paving composition to such purpose by our invention, in which the blocks or slabs are formed in molds in form to receive the wires or cables. The wires or cables may be packed in their conduits, if desired.

Having thus described our invention, the following is what we claim as new therein, to

adapt the Stuart granolithic paving composition to another useful purpose, and desire to secure by Letters Patent:

1. Blocks or slabs of granolithic paving composition formed with conduits adapted to receive electric wires or cables.

2. Blocks or slabs of granolithic paving composition having conduits beneath the surface and cemented together.

WALTER BERRY.
PETER STUART.

Witnesses:
GEO. MACAULAY CRUIKSHANK,
JOHN BURNS.