

UNITED STATES PATENT OFFICE.

FREDRICH GEIB, OF BUFFALO, NEW YORK.

CONCRETE PAVEMENT.

SPECIFICATION forming part of Letters Patent No. 300,593, dated June 17, 1884.

Application filed February 26, 1884. (No specimens.)

To all whom it may concern:

Be it known that I, FREDRICH GEIB, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Concrete Pavements; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to this specification.

My invention relates to an improved compound for pavements, having for its object the provision of a compound of materials which shall render the pavement durable and serviceable and comparatively cheap and simple of manufacture; and the invention consists in the ingredients hereinafter mentioned and the treatment by which they are converted into blocks or bricks, substantially such as shown and described in a patent granted to me on the 15th day of April, 1880, and numbered 214,383.

To the above ends the invention consists in the following ingredients, combined in about the proportions hereinafter stated, to wit: common clay, seventy-five (75) per cent.; fire-clay, ten (10) per cent.; glass, two and one-half (2½) per cent.; salt, two and one-half (2½) per cent.; stone, two and one-half (2½) per cent.; slate, two and one-half (2½) per cent.; coal ashes and cinders, five (5) per cent., and sufficient water diluted with lime to render the compound plastic.

The method for compounding the ingredients is as follows: The glass, salt, stone, slate, and coal ashes and cinders in and about the proportions above set forth are reduced to a pul-

verulent state and thoroughly mixed by suitable machines with the clays in the proportions stated. Water diluted with lime is then added in sufficient quantity to render the compound plastic, and said compound is then pressed by suitable dies into blocks or bricks in substantially the form shown in the patent here- in before referred to, after which they are sun-dried and burned or hardened in a suitable kiln or oven.

I attach importance to the salt as an ingredient, as in connection with the two kinds of clay mentioned it acts as a flux and serves to vitrify the compound.

I also attach importance to the use of the two kinds of clay—the common clay and the fire-clay—which are the principal ingredients, making about eighty-five per cent. of the whole, the salt mentioned and the fire-clay serving as a flux to vitrify the mass when the proper degree of heat has been attained.

I am aware of Patents Nos. 132,973, of 1872, and 68,284, of 1867, and the compounds therein described are not sought to be covered in this application.

What I claim, and desire to secure by Letters Patent of the United States, is—

The compound for paving-blocks herein described, consisting of common clay, fire-clay, mixed with pulverized glass, salt, stone, slate, and coal cinders and ashes, substantially in and about the proportions herein described, the whole made plastic with lime-water, pressed into blocks, dried, and burned, as set forth.

FREDRICH GEIB.

Witnesses:

FREDERICK R. MARCH,
MATHEW McCOMB.