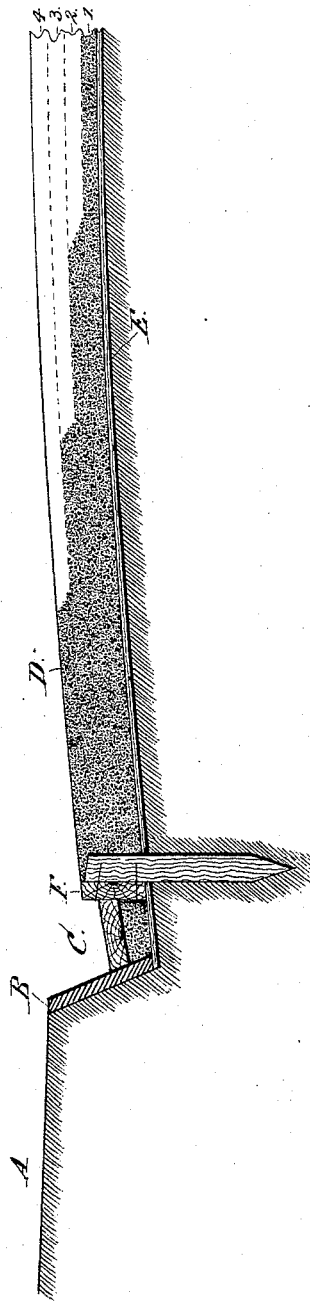


(No Model.)

O. S. BURDETT.  
PAVEMENT AND GUTTER.

No. 421,235.

Patented Feb. 11, 1890.



WITNESSES,

Helmut Holtz.  
Percy D. Parker.

INVENTOR.

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# UNITED STATES PATENT OFFICE.

OLIVER S. BURDETT, OF NEW ORLEANS, LOUISIANA.

## PAVEMENT AND GUTTER.

SPECIFICATION forming part of Letters Patent No. 421,235, dated February 11, 1890.

Application filed July 19, 1889. Serial No. 318,072. (No model.)

*To all whom it may concern:*

Be it known that I, OLIVER STANTON BURDETT, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in Pavements and Gutters; 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.

My invention relates to an improvement in artificial pavements and gutters, and the novelty will be fully understood from the following description and claim, when taken in connection with the annexed drawing, in which the figure is a sectional view of my improved pavement and gutter.

The following letters refer to the various parts. A is a sidewalk; B, a curbstone; C, the bottom gutter; D, a mass of concrete gravel; E, a timber or stone foundation; F, a counter-curb.

In carrying my method into operation the street is brought to a sub-grade. On this I place a planking of from one to two inches in thickness, this planking extending under counter-curb, with gravel under bottom of gutter. As will be seen, this pavement is thus confined in a box whose length is the length of the square, and the width of the box is the width of the street. Then the gravel is placed in this box, say in layers of three inches, and is continuously spread, sprinkled, and rolled until it reaches the desired depth of twelve or more inches; figures 1, 2, 3, and 4 showing the different layers. This pavement is made from a concrete gravel indigenous to the State of Mississippi, being placed in four layers or more until the whole mass

of gravel is rolled down to a solid concrete mass.

The object of the plank or stone box is to prevent the soil from mingling with gravel, which gravel, having already a ferruginous deposit, will not admit the mixture of any other soil with it, and becomes a compact body of itself.

The curbing may be constructed of wood or stone.

The gravel as placed in layers is to be sprinkled with Mississippi-river or Artesian water, from the fact that they contain mineral. These two waters cause the ferruginous deposit in the concrete gravel to form a rock-like mass when heavy iron rollers are drawn over the different layers of gravel. When this mode of placing gravel in a frame or stone box has been fully complied with, I produce a solid concrete gravel pavement which is adapted to the use of any vehicle, and at the same time free of mud at all seasons of the year, and thus forming a hard concrete gravel pavement.

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

In an artificial pavement, the combination, with the sidewalk having the curb B, of the gutter consisting of the gravel base and top layer, and the counter-curb braced on the side adjacent to the sidewalk by the gutter-layers and on the street side by the vertical stakes, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

OLIVER S. BURDETT.

Witnesses:

HELMUTH HOLTZ,  
PERCY D. PARKS.