No. 838,450. PATENTED DEC. 11, 1906.

W. H. REDEMEYER.

DRAINING APPARATUS AND DUST COLLECTOR FOR PAVEMENTS.

APPLICATION FILED MAR. 7, 1906.

FIG. 1.

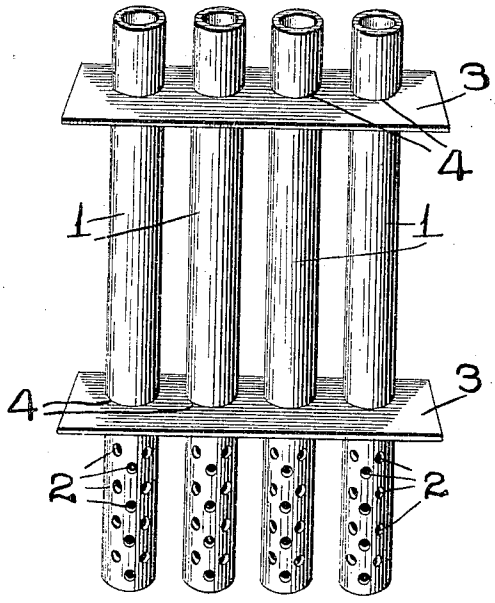


FIG. 2.

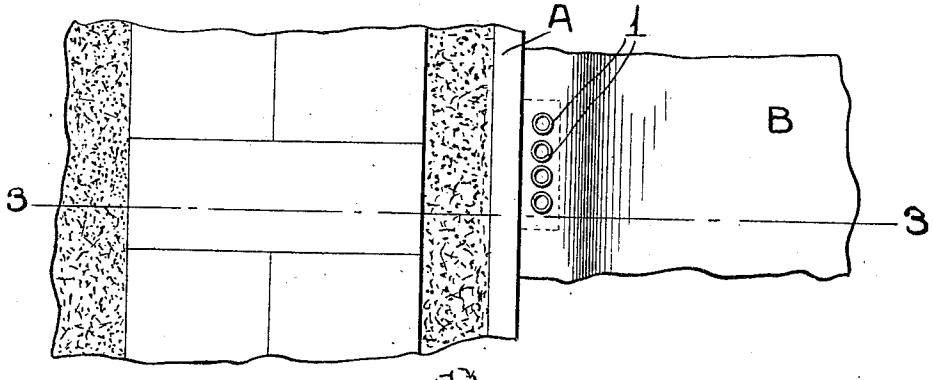
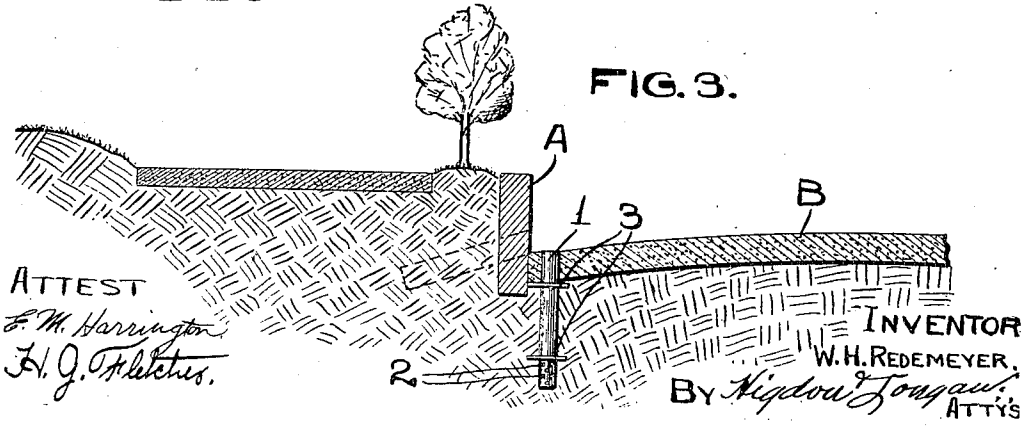


FIG. 3.



ATTEST

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DRAINING APPARATUS AND DUST-COLLECTOR FOR PAVEMENTS.

No. 838,450. Specification of Letters Patent. Patented Dec. 11, 1906.

Application filed March 7, 1906. Serial No. 304,704.

To all whom it may concern:

Be it known that I, WILLIAM H. REDEMEYER, a citizen of the United States, and a resident of St. Louis, Missouri, have invented certain new and useful Improvements in Draining Apparatus and Dust-Collectors for Pavements, of which the following is a specification, containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to a draining apparatus and dust-collector for pavements; and the object of my invention is to provide a simple inexpensive apparatus, particularly for use in the gutters of pavements for draining water from the surface of the pavement and delivering it into the earth a suitable distance below said pavement in order to irrigate said earth, and thus assist in sustaining the life of the shrubbery and trees that may be planted adjacent the pavement.

A further object of my invention is to provide a simple apparatus which will receive a certain amount of dust that accumulates on the surface of the pavement and which dust may be removed from time to time as it accumulates in the apparatus.

My improved apparatus is particularly adapted for use in the gutters of streets that are paved with asphalt or analogous material through which water does not ordinarily percolate, and thus considerable moisture is delivered into the earth at a point where it will greatly assist in the irrigation of the earth immediately beneath the parting that is ordinarily arranged between the curb and the sidewalk.

To the above purposes, my invention consists of certain novel features of construction and arrangement of parts, which will be hereinafter more fully set forth, pointed out in my claim, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of an apparatus constructed in accordance with my invention. Fig. 2 is a plan view of the apparatus in position in the gutter of a paved street. Fig. 3 is a vertical section taken on the line 3 3 of Fig. 2.

In the construction of my improved apparatus I make use of a plurality of tubes 1, preferably constructed of metal and of equal length, open at both ends, and each provided adjacent its lower end with a series of perforations 2. Each set or series of tubes is held together by plates 3, which are provided with openings 4, through which the tubes pass, and, if desired, the plates may be soldered or fixed to the tubes in any suitable manner. The upper one of these plates is arranged a short distance below the tops of the tubes 1, and the lower plate is arranged a short distance above the perforations in the lower ends of said tubes.

My improved apparatus is preferably arranged in the gutter of the street immediately against the lower portion of the curb A, with the top ends of the tubes 1 flush with the surface of the paving B. When thus positioned, the perforated lower ends of the tubes 1 are positioned some little distance beneath the paving and the lower end of the curb, and when the dirt is tamped in around the tubes they will be very firmly held in proper position.

The rain or sprinkling water falling onto the surface of the paving naturally finds its way into the gutters at the sides of the streets and ordinarily flows off through said gutters into the catch-basin, and where my improved apparatus is made use of a certain amount of this water will pass into the tubes 1 and will seep through the apertures 2 and the open lower ends of said tubes, and thus moisten and irrigate the surrounding earth. The moisture thus delivered to the earth adjacent the curb will naturally be taken up by the grass and shrubbery that occupy the parking between the curb and the sidewalk.

Where the curbstones are manufactured of concrete, the apparatus can be arranged horizontally or at an angle extending inwardly through the lower portion of the curb from the gutter, as shown by dotted lines in Fig. 3, and the apparatus can also be advantageously used around trees or shrubbery that are planted adjacent paving that would ordinarily carry off the rain and sprinkling water.

A certain amount of the dust that accumulates in the gutter will naturally fall into the tubes 1, and this accumulation may be removed from time to time by inserting a suitable implement in each tube and lifting the accumulated dust and dirt therefrom.

The apparatus is simple, inexpensive, easily placed in position, and materially assists in sustaining the life of grass, shrubbery, and

trees that are planted adjacent paving that ordinarily carries off the rain and sprinkling water.

I claim—

In an apparatus of the class described, a series of open-ended tubes the lower portions of which are perforated, a plate uniting the upper ends of all the tubes, and a plate arranged on the lower portions of said tubes immediately above the perforations therein; substantially as specified.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

WILLIAM H. REDEMEYER.

Witnesses:

M. P. SMITH,

JOHN C. HIGDON.