J. F. BLUNT.
MEANS TO SPRINKLE CRUDE OIL ON DUSTY ROADS.
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Witnesses

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JOHN F. BLUNT, OF LOS ANGELES, CALIFORNIA.

MEANS TO SPRINKLE CRUDE OIL ON DUSTY ROADS.


To all whom it may concern:

Be it known that I, JOHN F. BLUNT, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Means to Sprinkle Crude Oil on Dusty Roads, of which the following is a specification.

In sprinkling crude oil on the streets to lay the dust it is found that in the ordinary apparatus used for that purpose proper control of the oil is not had, and as a result the oil is often spread upon the sidewalk and curb, which is very objectionable; and the object of my invention is to provide practical means to control the disposition of the oil over the surface to be oiled, to limit the area over which it is spread, to provide means whereby a sufficiency of oil can be spread over the entire road-bed adjacent to the curb and not to deposit the oil on the curb or the sidewalk and at same time to discharge same so close to the surface as to prevent the wind from blowing the oil as it falls in fine spray or thin sheets from the oiler to the road-bed, to provide means more uniformly to distribute the oil over the surface to be oiled, and thereby to economize in the use of oil, and to prevent the deposit of an unusual and unnecessary amount of oil in places on the road-bed, resulting in objectionable puddles of oil in places in the road. I accomplish these objects by means of the device described herein, and shown in the accompanying drawings, in which—

Figure 1 is a side elevation of the rear end of an oil-sprinkling wagon, showing the oil-sprinkler in side elevation. Fig. 2 is a rear view of the cylindrical oil-sprinkler and the rearwardly-projecting apron, the apron being partly broken away. Fig. 3 is a transverse section of the sprinkler, taken on the line 3 3 of Fig. 2. Fig. 4 is a rear elevation of the three-way fitting to which the different subdivisions of the sprinkler are in communication.

In the drawings, A represents the usual oil-tank used for sprinkling crude oil on dusty roads, from which projects rearwardly the oil-discharge pipe B, which carries on its outer rear end the three-way fitting C, each branch projecting therefrom having cut-off valves D mounted thereon. A flexible connecting pipe or conduit E connects each branch to the nipple F or the cylindrical sprinkler G. On the rear side of the cylindrical sprinkler are a number of perforations H, providing discharge-ports through which the oil is discharged. The oil in passing through these ports if the tank is full will be projected outwardly in small jets and contact with the apron I, secured to the cylindrical sprinkler just above the oil-discharge ports therein. This apron is disposed thereon so as to pass in close proximity to the surface of the ground being sprinkled and will limit the area over which the oil is distributed and prevent its being thrown beyond the locality desired to be sprinkled and prevent the oil from being blown by the wind upon passers-by and wasted.

The connecting-duct E being flexible will provide means whereby the oiler will at all times move along in close proximity to the surface being oiled, thereby affording means uniformly to distribute the oil over uneven places in the road-bed.

Road-beds as usually constructed are more or less inclined as they approach the curb and depart more or less from a level adjacent to the curb. To prevent the oil from running to the lower end of the oiler and depositing an excess of oil next to the curb, I have divided the sprinkler into a number of subdivisions 1, 2, and 3 by means of the partitions J. (Shown in dotted lines in Fig. 2.)

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

1. Means for sprinkling crude oil on dusty roads comprising in combination a portable oil-tank; a discharge-pipe leading therefrom; a sprinkling-cylinder carrying an apron and having connecting-nipples and flexible connection solely connecting the discharge-pipe with the nipples.

2. In combination with a portable oil-sprinkling tank a cylindrical oil-sprinkler having discharge-ports in the side walls thereof; an apron projecting from the sprinkler at a point on the cylinder above the ports therein, the sprinkler being connected with the discharge-pipe of the tank solely by a flexible connection.

3. In an apparatus for sprinkling crude oil on road-beds comprising a portable oil-tank, a sprinkler having discharge-ports therein and a deflecting-apron disposed on said sprinkler above said oil-ports and adapted to divert the jets of oil downwardly the said
sprinkler being in communication with the oil-tank solely by means of flexible connections.

4. In an oil-sprinkler of the character hereinafter described a portable oil-tank, a sprinkler provided with discharge-ports in the side thereof and having an apron disposed above said ports closed at the tops and side and open at the bottom, and flexible tubing constituting the sole connection between tank and sprinkler.

5. The herein-described means to distribute crude oil evenly over uneven surfaces in the road-bed to be sprinkled comprising a portable oil-tank a sprinkler in communication with the oil-tank by means of flexible connections; and having a deflecting-apron disposed on said sprinkler and adapted to divert the jets of oil proceeding from the sprinkler downwardly in a thin sheet where the surface is being oiled.

6. The herein-described means to distribute crude oil on dusty roads comprising in combination the oil-tank A having secured thereto the discharge-pipe B carrying the three-way fitting C; a valve D on each branch of said fitting and the cylindrical sprinkler G having nipples F thereon; the said nipples being in communication with the three-way fitting G by means of the flexible connections E, the said cylindrical sprinkler being provided with discharge-ports H and the deflecting-apron I disposed on said sprinkler above the discharge-ports and adapted to divert the jets of oil ejected through the discharge-ports downwardly in a uniform sheet.

In witness that I claim the foregoing I have hereunto subscribed my name this 26th day of April, 1905.

JOHN F. BLUNT.

Witnesses:
HENRY T. HAZARD,
G. E. HARPHAM.