C. P. PRICE.

FLUID DISTRIBUTING DEVICE.

APPLICATION FILED OCT. 1, 1908.

998,983.

Patented July 25, 1911.

2 SHEETS—SHEET 1.

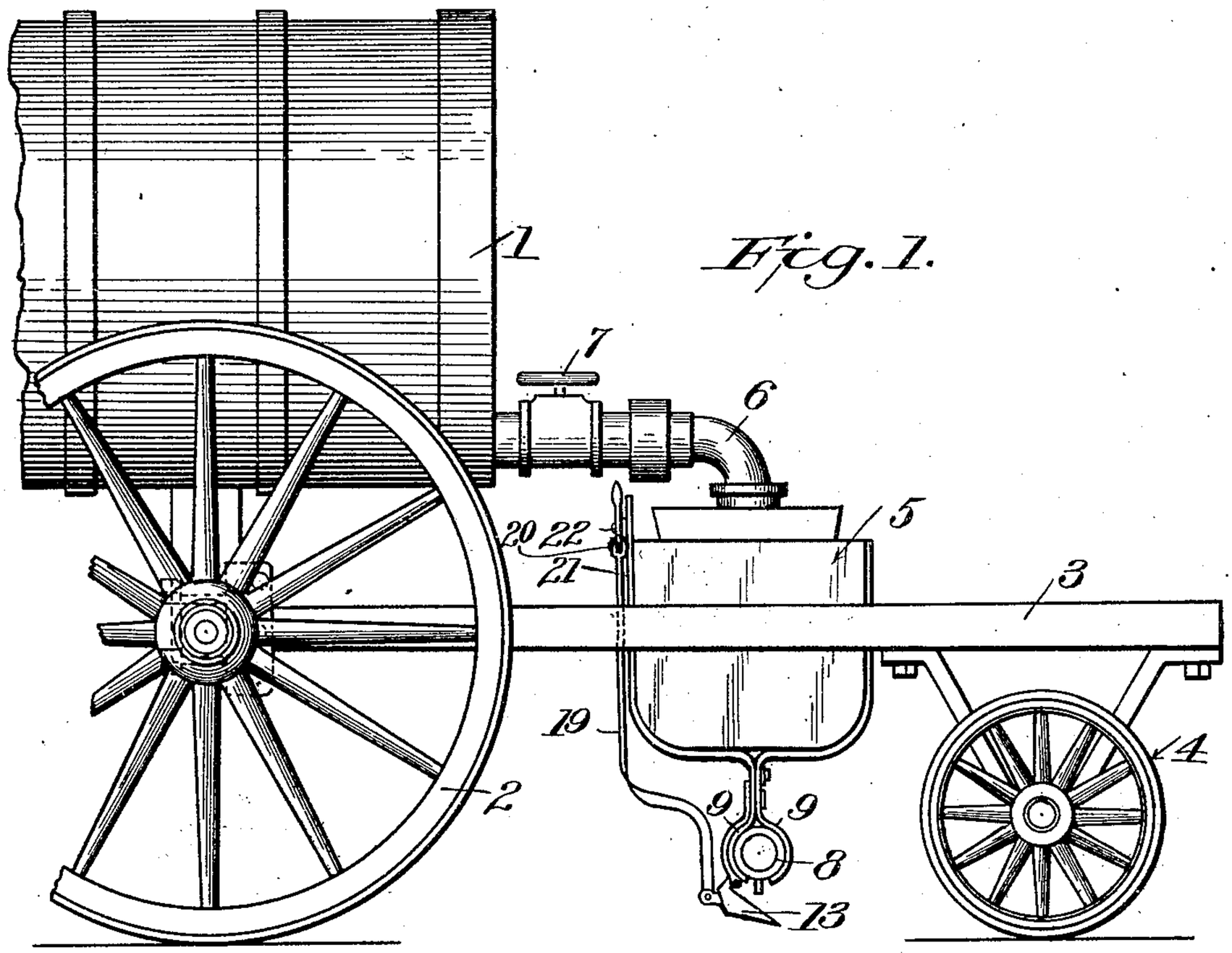


Fig. 1.

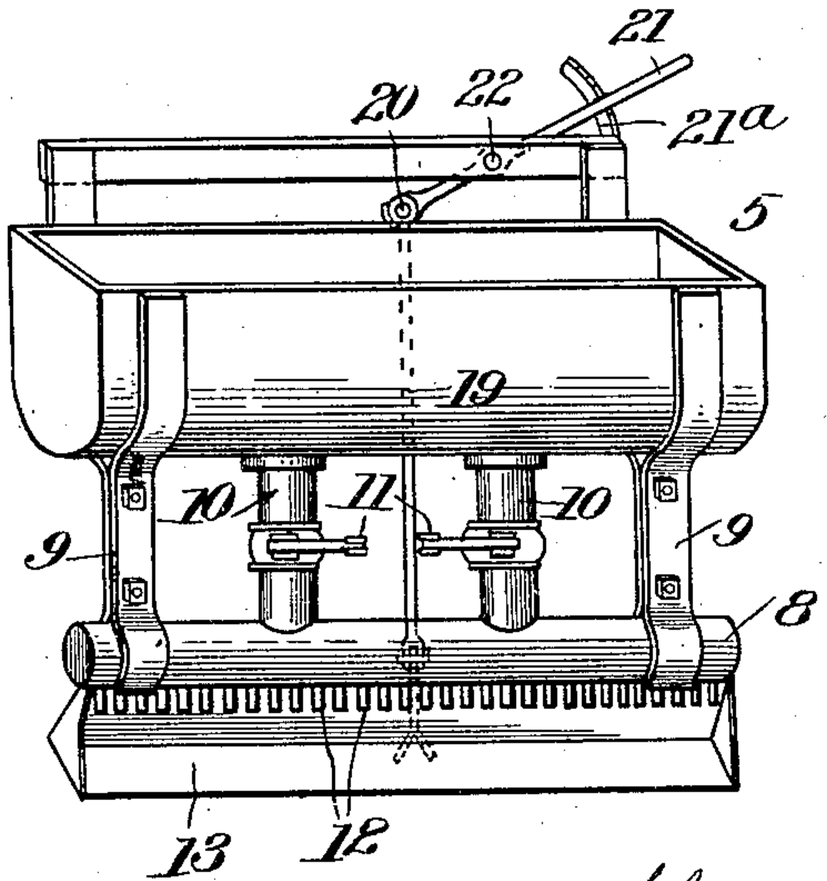


Fig. 2.

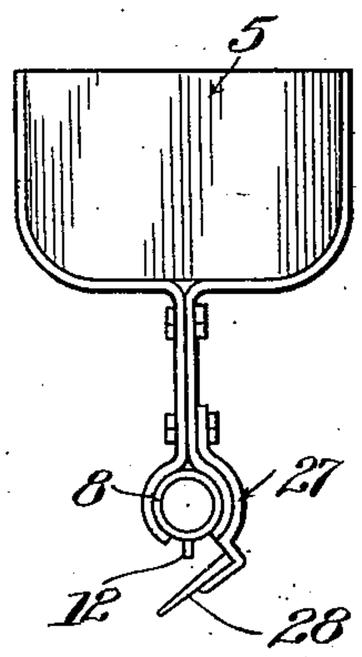


Fig. 7.

Witnesses

C. M. Darkus.

L. E. Fischer.

Inventor

Charles P. Price

By Sturtevant & Mason

Attorneys

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

C. P. PRICE.

FLUID DISTRIBUTING DEVICE.

APPLICATION FILED OCT. 1, 1908.

998,983.

Patented July 25, 1911.

2 SHEETS—SHEET 2.

Fig. 3.

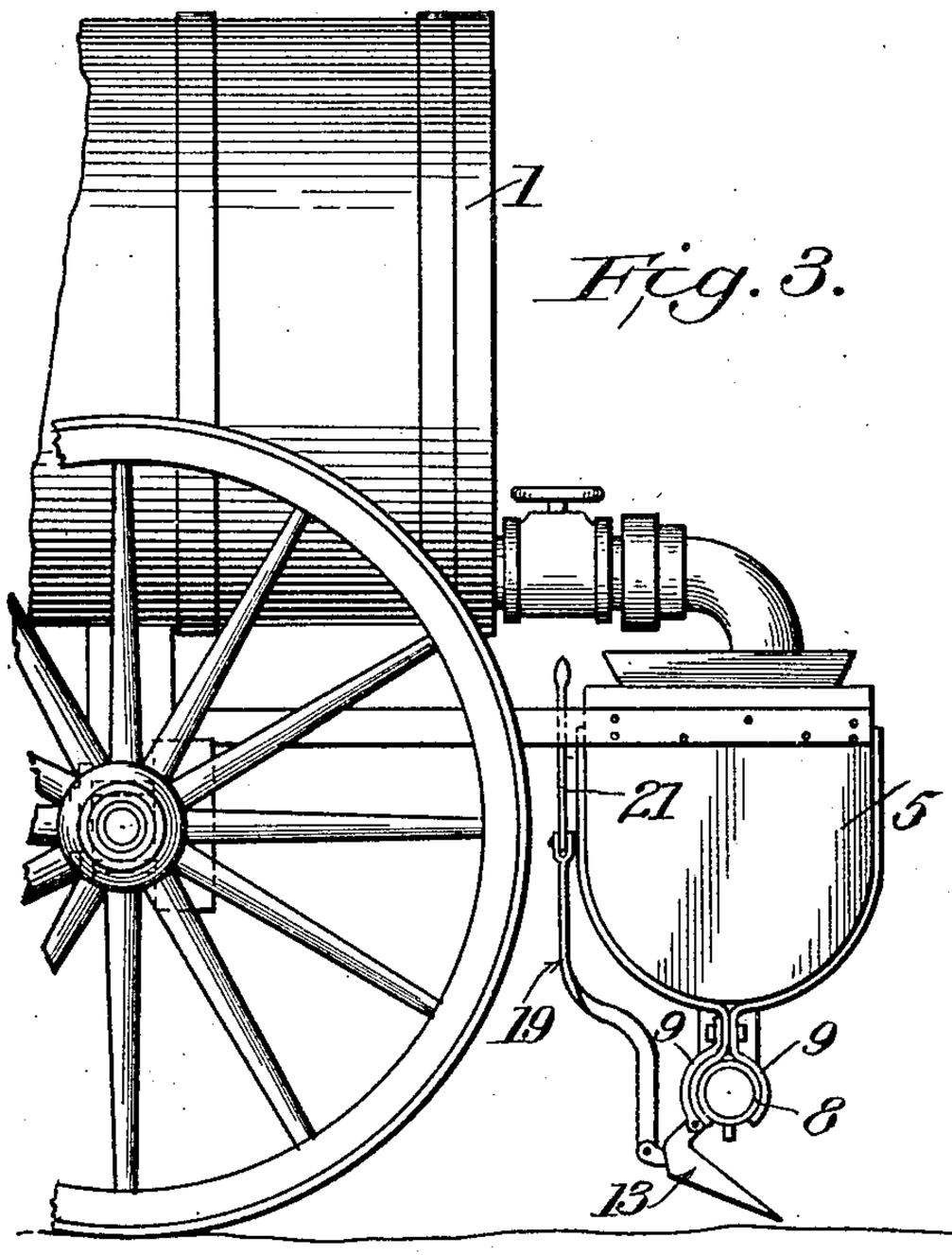
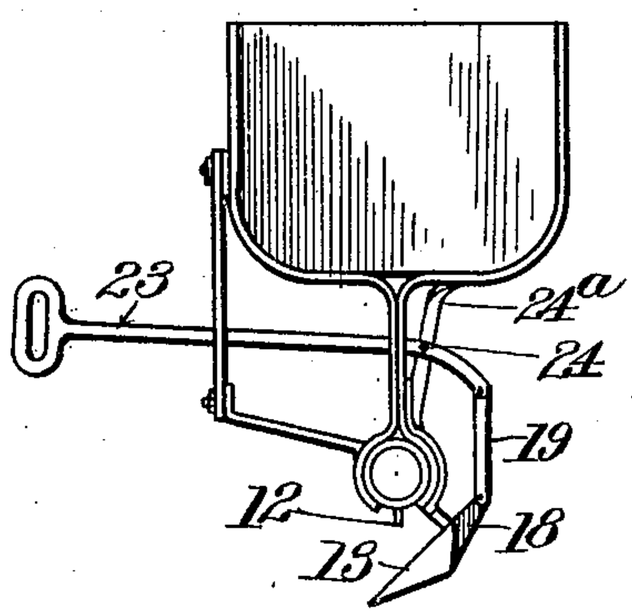


Fig. 6.



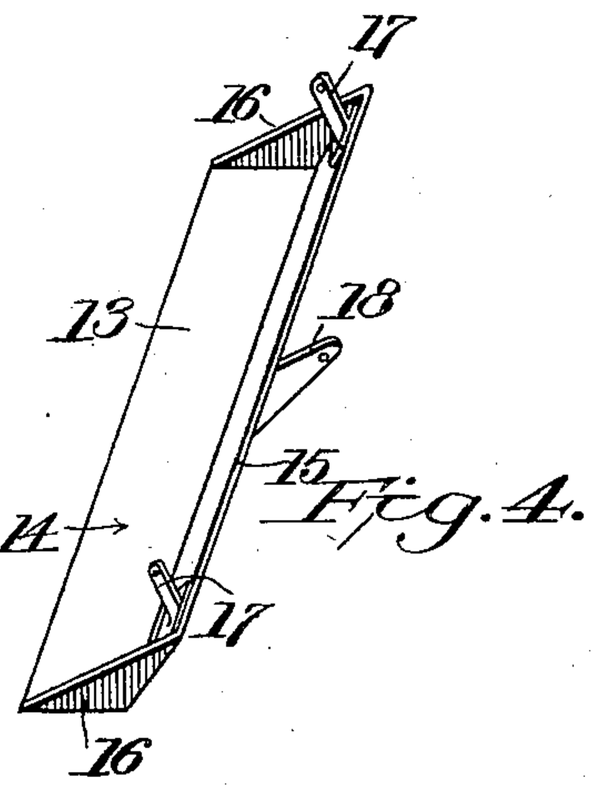
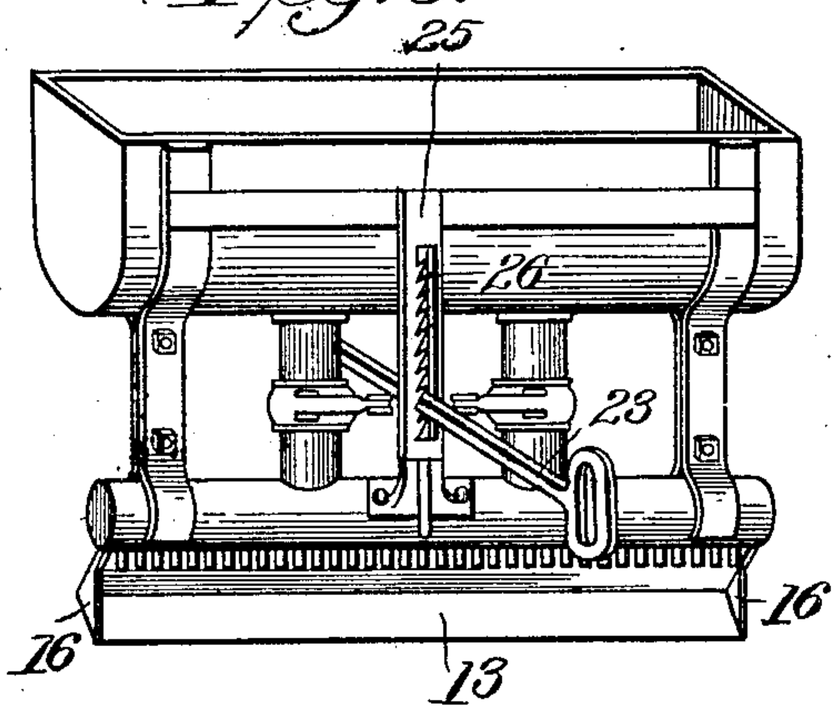


Fig. 4.

Fig. 5.



Witnesses

C. H. Walker.

L. E. Fischer.

Inventor

Charles P. Price

By Sturtevant & Mason

Attorneys

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES P. PRICE, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO AMERICAN TAR COMPANY, OF BOSTON, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS.

FLUID-DISTRIBUTING DEVICE.

998,983. Specification of Letters Patent. Patented July 25, 1911.

Application filed October 1, 1908. Serial No. 455,694.

To all whom it may concern:

Be it known that I, CHARLES P. PRICE, a citizen of the United States, residing at Malden Station, Boston, in the county of Suffolk, State of Massachusetts, have invented certain new and useful Improvements in Fluid-Distributing Devices, of which the following is a description, reference being had to the accompanying drawing and to the letters and figures of reference marked thereon.

My invention relates to new and useful improvements in fluid distributing machines, and more especially to oil distributing machines, of the character shown for example, in the patent to De Camp #637,713, granted November 21st, 1899, although it is obvious that my improvement is applicable to an oil distributing machine of any character.

It will be obvious that while my invention has been especially designed for use in distributing oil upon roads, so far as the construction of the apparatus set forth in the claims is concerned, it is applicable for the distribution of any flowing material adapted to be used in the making of roads.

An object of the invention is to provide a splash board which is so located relative to the distributing ports that the material passing from said ports will strike said splash board and be distributed by said splash board, in an even coating throughout the entire width of the machine.

A further object of the invention is to provide a device which shall operate to catch the drippings from the delivery ports, when crossing a side walk or the like.

Still further objects will in part be obvious, and will in part be hereinafter more fully described.

In the drawings which show by way of illustration one embodiment of the invention; Figure 1 is a side view showing the rear end of an oil cart with my improved attachment applied thereto. Fig. 2 is a perspective view showing the auxiliary oil tank with my splash board attached thereto and the operating lever therefor. Fig. 3 is a side view showing the rear end of an oil cart supporting an auxiliary oil distributing tank and my improvement applied thereto. Fig. 4 is a perspective view of the splash board detached. Fig. 5 is a view showing an auxiliary oil tank with my improvement applied thereto, with the operating lever positioned so as to be operated directly behind the auxiliary tank. Fig. 6 is a side view of the device shown in Fig. 5. Fig. 7 is an end view showing a slightly modified form, in that the splash board is rigidly attached to the auxiliary tank.

In Fig. 1, I have shown an oil cart 1, of the type illustrated in the De Camp patent above referred to. Said cart is provided with the usual running wheels 2, and with an auxiliary oil distributing cart 3, which is detachably secured to the rear axle of the main cart. Said auxiliary distributing cart is mounted on suitable wheels 4, and is provided with an auxiliary tank 5, which is connected to the main tank 1, through the pipe 6. The flow of oil through the pipe 6 is controlled by a hand valve 7. Said auxiliary tank 5 is provided with a distributing pipe 8 which is supported by suitable brackets 9. Short pipes 10, 10, connect the auxiliary tank 5 with the distributing pipe 8. Suitable valves 11, 11, are provided which regulate the flow of the oil from the auxiliary tank. Said distributing pipe 8 is provided with a plurality of delivering openings 12, which are herein shown as in the form of nozzles. It will be understood, however, that any other form of delivery opening may be employed. The oil passes from the auxiliary tank into the distributing pipe 8 and then through delivery openings or nozzles 12. It will be obvious that the oil instead of being smoothly laid upon the surface, would be deposited in a plurality of separated streams.

In order to cover evenly the entire surface, I have provided a splash board 13, which as shown in detail in Fig. 4, consists of the side members 14 and 15 which are tightly secured together and arranged slightly at an angle to each other so as to form a trough. The end pieces 16, 16, serve to close the ends of the trough. The member 15 is provided with arms 17, 17, which are pivoted to the bracket arms 9, 9, which as herein shown support the distributing pipe. The splash board of the distributing trough 13, is provided with a rearwardly extending arm 18, to which is pivotally connected a link 19. The other end of the link 19 is pivoted at 20 to a lever 21, which is fulcrumed at 22 to a suitable support or if desired, to the auxiliary oil holding tank 5.

The lever 21 as shown in Figs. 1 and 2, extends to one side, so that said lever may be readily operated by the attendant walking at one side of the oil distributer. A locking rack 21[a] is provided which engages the lever 21 and holds said lever with the splash board in its adjusted positions.

In Fig. 3, I have shown my improved splash board attached to an auxiliary oil distributing tank, which is supported directly by the main cart 1. The construction herein shown is otherwise identical with that shown in Figs. 1 and 2. In Figs. 5 and 6, I have shown the operating lever for the splash board, arranged in a different manner from that shown in Figs. 1 and 2. In these figures the operating lever 23 is pivoted at 24 to a bracket 24[a], and at its end said lever is pivoted to a link 19 which is pivotally secured to the bracket 18 carried by the splash board 13. The lever 23 is arranged centrally of the machine and extends through a locking bar 25, which is provided with a series of teeth 26, which engage the bar 23, and serve to hold the splash board 13 in various adjusted positions.

In Fig. 7, I have shown a bracket 27 which is secured to the brackets supporting the distributing pipe 8, in any suitable manner. Said bracket 27 is provided with a splash board 28 which extends across the entire width of the machine and is so disposed that the oil passing from the delivery ports 12 will strike the splash board 28 and be delivered therefrom in an even coating upon the surface being coated. The splash board as shown in this view is not adjustable.

The liquid as it passes from the delivery ports falls on the splash board, which is arranged directly underneath the delivery ports and the oil or other liquid being distributed as it runs down the splash board, will run together so as to pass over the edge of the splash board in a thin even coating.

The splash board may readily be adjusted by means of the operating lever so as to properly position the same for the material being distributed.

When operating to coat road ways with oil, it is desirable that the coating of oil should be stopped when passing cross walks or the like. Suitable valves are provided so that the flow of the oil may be stopped when a cross walk is reached. It has been found however, that although the valves be closed there will be considerable drippings from the delivery ports. By my improved splash board however, the operator can quickly throw up the lower end of the board so that the splash board will serve as a trough to catch all the drippings from the delivery ports during the time the distributer is passing over a side walk.

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

1. The combination with a movable distributing apparatus, having a plurality of separated delivering openings, of a downwardly inclined splash board arranged below said openings and carried by said apparatus and having a substantially smooth surface for receiving the material, and for evenly spreading a coating of the same on a road bed as it runs from the lower edge of the splash board.

2. The combination with a movable distributing apparatus, having separated delivering openings, of a downwardly inclined splash board arranged below said openings and carried by said apparatus, and having a substantially smooth surface for receiving the material and for evenly spreading a coating of the same on a road bed, and means for adjusting the angular position of said splash board relative to the distributing apparatus.

3. The combination with a movable distributing apparatus having separated delivering openings, of a trough-shaped splash board carried by said apparatus and located beneath said openings and adapted to receive the material as it passes from said openings, said splash board being downwardly inclined, whereby the material is caused to run from the lower edge thereof in an even coating.

4. The combination with a movable distributing apparatus having a plurality of separated delivering openings, a trough-shaped splash board pivotally supported at one side of said delivering openings, and extending underneath the same, said splash board being downwardly inclined, whereby the material received on the same will run in an even coating from the lower edge thereof, and means for adjusting the position of the splash board.

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

CHARLES P. PRICE.

Witnesses:
J. P. FRITZ,
JOHN MCGRATH.