

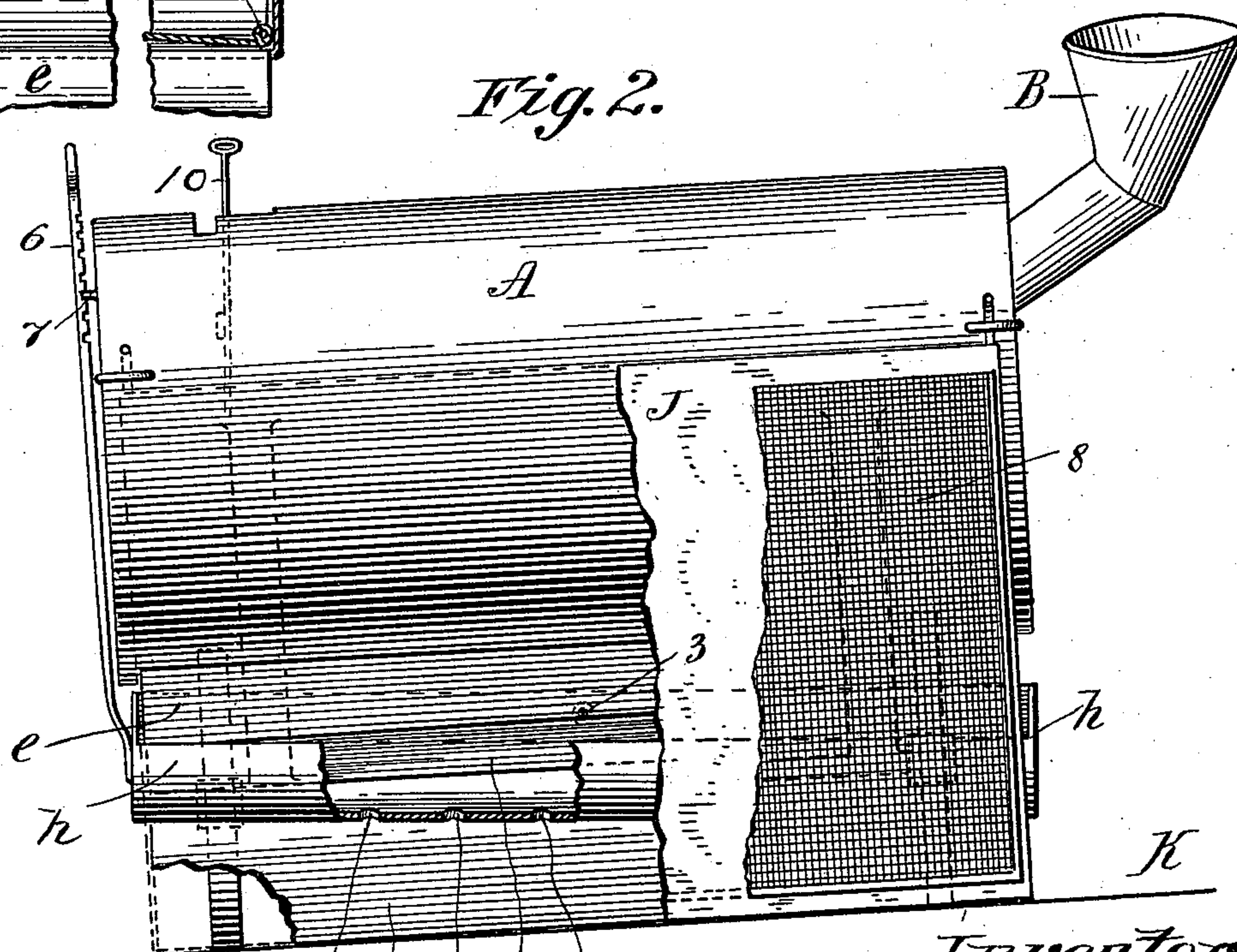
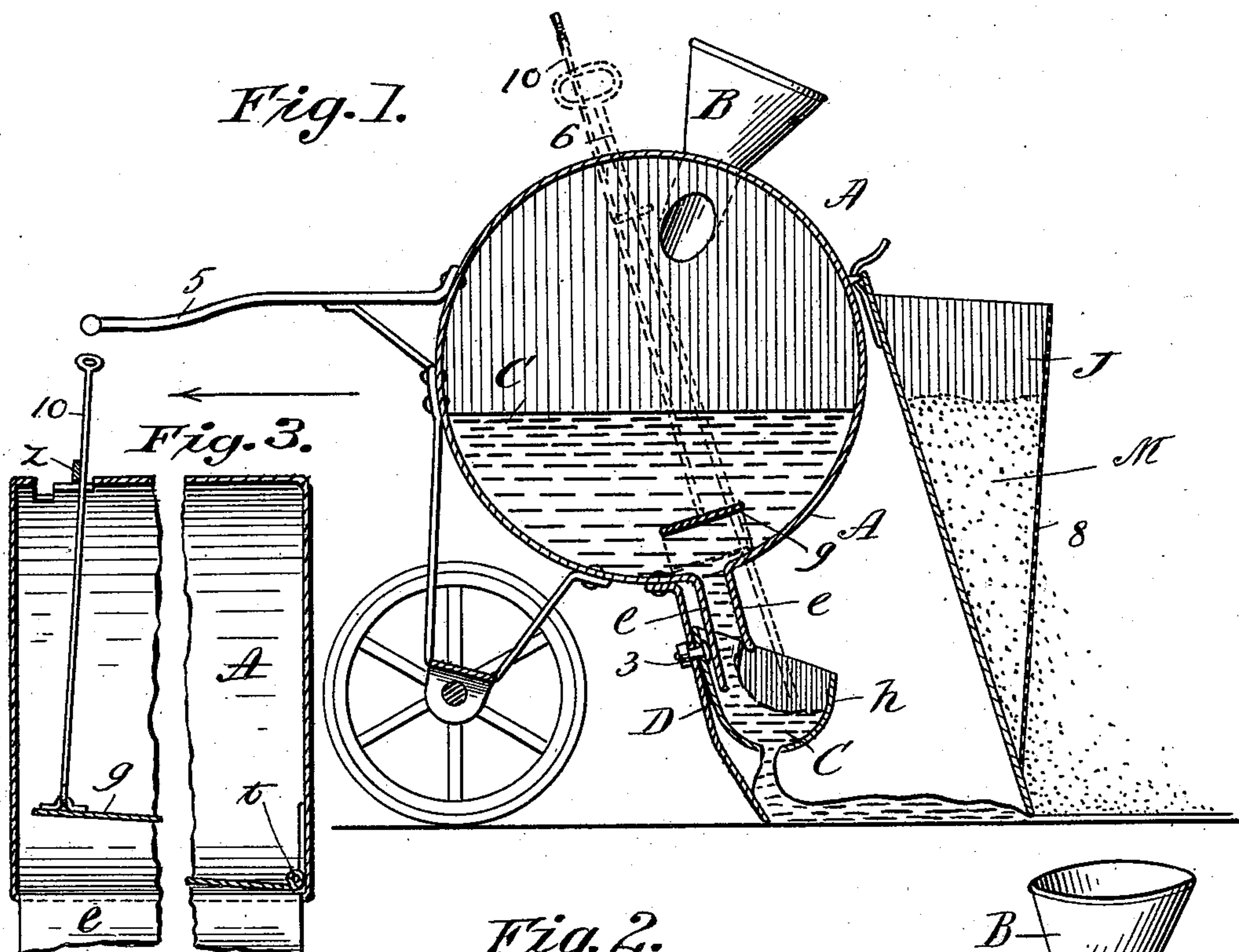
(No Model.)

T. CONNOR.

MACHINE FOR APPLYING PLASTIC, &c., TO ROOFS.

No. 533,052.

Patented Jan. 29, 1895.



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THOMAS CONNOR, OF HOLYOKE, MASSACHUSETTS.

MACHINE FOR APPLYING PLASTIC, &c., TO ROOFS.

SPECIFICATION forming part of Letters Patent No. 533,652, dated January 29, 1895.

Application filed April 16, 1894. Serial No. 507,662. (No model.)

To all whom it may concern:

Be it known that I, THOMAS CONNOR, a citizen of the United States, residing at Holyoke, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Machines for Applying Plastic and other Materials to Roofs, of which the following is a specification.

This invention relates to devices for applying plastic and other materials to roofs, the object being to provide an improved machine for dropping and spreading said material, either alone, or with powdered mineral substances, upon roofs, and forming a coating thereupon of uniform thickness, and the invention consists in the peculiar construction and arrangement of the parts of said machine, all as hereinafter fully described and more particularly pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a transverse sectional view, and Fig. 2 is a front elevation of a machine for distributing and spreading plastic and mineral materials on roofs, constructed according to my invention. Said Fig. 2 illustrates the mineral receptacle partly broken away. Fig. 3 is a sectional view of a portion of the tank of the machine, illustrating interiorly arranged devices.

In the drawings, A is a metallic tank, preferably of cylindrical form, mounted on two wheels as shown, whereby it is so supported that it can be conveniently drawn along upon the roof of a building wherever it may be desired, by grasping the projecting handle, 5. In practice, the machine is moved over the roof in the direction indicated by the arrow shown under said handle in Fig. 1.

The tank, A, is supplied with hot plastic material, C, as tar, or like substance, by pouring the same through the funnel, B. A pending, metallic apron, D, is riveted, or otherwise secured on the under side of said tank, A, and extends from end to end of the latter. Said apron serves, as the machine is drawn along, to remove any loose matter that may lie on the roof, and leave the latter clean to receive the roofing material, and said apron also serves as a support to maintain the apparatus in the position of rest in which it is shown in Fig. 1. A longitudinal opening be-

tween two pending metal lips, *e, e*, is formed at the lowest part of the tank, A, and extending substantially the whole length of the latter. The said roofing material escapes from said tank through said opening, and is received in a metal trough, *h*, which is hung on said apron, D, by a centrally located bolt, 3, whereby provision is made for adjusting said trough so that it may be supported longitudinally at an incline to the tank, A, for a purpose hereinafter set forth. The said trough, *h*, has a series of perforations, 4, through the bottom thereof throughout its length, whereby an even discharge and distribution of the roofing material received therein, is effected upon the roof of the building, and in such a manner that is easily leveled and spread to the desired thickness. For the purpose of swinging said trough, *h*, to said incline, and maintaining it in position, a notched bar, 6, is attached to the end of it, which extends upward against the end of the tank and engages with a projection, 7, thereon, so that said trough will be held to such position as it may be swung to.

It will be noted that Fig. 2 shows the apparatus on an inclined line, K. Said line, K, represents the pitch, or incline, of a roof on which the machine may be drawn from end to end thereof. It is also shown in said Fig. 2, that the trough, *h*, is inclined reversely to that of the machine, so that it is brought to a substantially level position over the roof, and will therefore receive the roofing material and, owing to its said level position, it will deliver said material evenly over the roof.

A receptacle, 5, for comminuted mineral substance, *m*, such as pulverized slate, fine gravel, &c., is removably hung on the side of tank, A, and its lower edge drags freely over the roof and over the said roofing material thereon, and thereby serves to spread the latter, and at the same time to deposit said mineral substance thereon, the said receptacle having an outer side, 8, of perforated metal, or fine wire cloth, through which said mineral escapes. The apparatus may be used without said receptacle, J, in cases where heavy coating of plastic is necessary for gravel roofs.

A longitudinal valve, or gate, 9, is hinged by one end at *t*, to the inside of the tank, A, and serves to cover the outlet thereof, or to

open it more or less, by lifting it from over said outlet, thereby preventing the escape of any material from the tank, or governing the amount delivered therefrom. An operating
5 handle-bar, 10, is connected to the free end of said gate and extends upwardly through an opening in the top of the tank, and has a stop, 2, thereon for engagement with the tank, thus holding the valve open.

10 What I claim as my invention is—

1. In a machine for applying plastic material to roofs, a receiving tank for said material, a perforated trough connected to said tank thereunder and extending longitudi-
15 nally thereof, two pending lips extending from said tank toward said trough between which is a passage through which said material passes to said trough, an apron pending from under said tank and constituting a support for the same, a valve in said tank hinged
20 at one end and extending over said passage, an operating handle-bar attached to the free end of said valve and extending to the outside of said tank, and suitable wheels and a
25 handle attached to said tank whereby the apparatus is moved over a roof, combined and operating substantially as set forth.

2. In a machine for applying plastic material to roofs, a receiving tank for said material, a perforated trough connected to said
30 tank thereunder and extending longitudinally thereof, two pending lips extending from said tank toward said trough between which is a passage through which said material passes
35 to said trough, an apron pending from under said tank and constituting a support for the same, and suitable wheels and a handle attached to said tank whereby the apparatus is
40 moved over a roof, combined and operating substantially as set forth.

3. A machine for applying plastic material to roofs consisting of a tank for receiving said material having a delivery opening thereunder bordered by two guiding lips, a longitudi-
45 nally arranged apron pending from said tank near said opening on which said tank is par-

tially supported, a perforated trough for receiving said material hung to oscilate on said apron and under said opening, an operating
50 bar pivotally attached to said trough having an engagement with a fixed part of the machine, and suitable wheels, and a handle attached to said tank whereby the apparatus is moved over a roof, combined and operating
55 substantially as set forth.

4. In a machine for applying plastic material to roofs, a suitable tank for holding the plastic material mounted upon wheels, or rollers, whereby it is adapted for movement over
60 a roof, and discharging means connected with said tank adapted to be set at varying angles to the tank, substantially as and for the purpose described.

5. In a machine for applying plastic material to roofs, a suitable tank mounted upon
65 wheels, or rollers, a distributing trough adjutably supported adjacent to said tank, a conduit for conducting the plastic material from the tank to said trough, and means for governing the passage of said material
70 through said conduit, substantially as set forth.

6. In a machine for applying plastic material to roofs, a receiving tank for said material, a perforated trough connected to said
75 tank thereunder and extending longitudinally thereof, two pending lips extending from said tank toward said trough between which is a passage through which said material passes to said trough, an apron pending from
80 under said tank and constituting a support for the same, a mineral receptacle removably hung on said tank, having a perforated delivery side and free to rest by its lower end on a roof, and suitable wheels and a handle
85 attached to said tank whereby the apparatus is moved over a roof, combined and operating substantially as set forth.

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Witnesses:

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