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METHOD AND APPARATUS FOR APPLYING COATING TO THE INSIDE OF PAINT BUCKETS

Filed Feb. 18, 1924

Fig. 1.

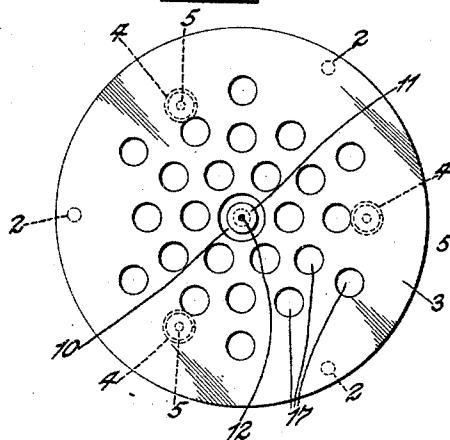


Fig. 2.

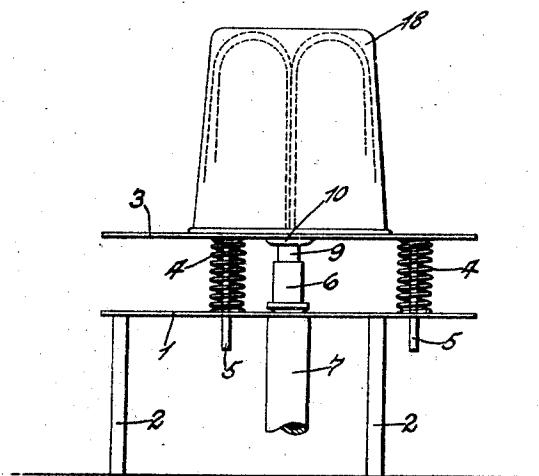
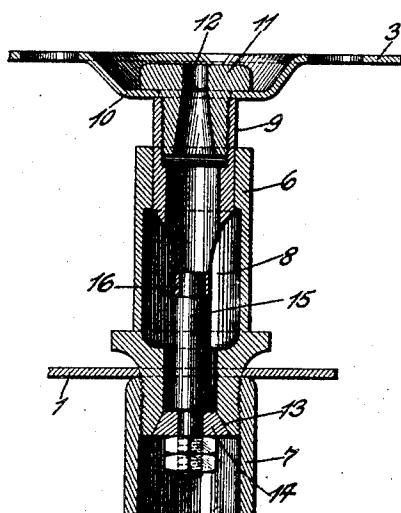


Fig. 3.



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UNITED STATES PATENT OFFICE.

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METHOD AND APPARATUS FOR APPLYING COATING TO THE INSIDE OF PAINT BUCKETS.

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This invention relates to method and apparatus for applying a coating to the inside of paint buckets.

In the marketing of certain products, such, 5 for instance, as white lead, the article is prepared for the market by packing in containers. In the case of white lead, these containers are ordinarily metal cans. Preparatory to depositing the material in the container, it is desirable to coat the interior of the container with a fluid, such as linseed oil. This process may be carried out by spraying the interior of each container with linseed oil.

15 One of the objects of this invention therefore is to provide a useful method and apparatus whereby the coating may be applied to the inside of a paint bucket in a simple and effective manner.

20 Further objects will appear from the detail description taken in connection with the accompanying drawing, in which:

Figure 1 is a plan view of a device embodying this invention;

25 Figure 2 is a side elevation of the same; and Figure 3 is an enlarged sectional view showing the construction of the nozzle.

Referring to the accompanying drawing, 1 designates a base having legs or other suitable supports 2. Rigidly mounted on the base 1 is a table 3 carried by springs 4 resting on the base 1 and guided by guide-rods 5. This mounting renders the table resilient so that it may be depressed by the operator.

30 35 Rigidly mounted on the base 1 is a support 6 to which is attached a conduit 7 connected with a source of fluid supply, not shown. Within the support 6 is a chamber 8 in the outlet of which is slidably mounted a tubular

member 9 abutting at its top against the under side of a cup or depression 10 formed in the table 3 at its center. The upper end of the member 9 is internally threaded to receive a cap 11 which serves to clamp the member 9 to the table 3 and which is provided

40 45 with a tapered bore 12 adapted to provide a nozzle. The member 9 together with the cap 11 provide a movable nozzle communicating with the chamber 8. The lower end 50 of the spray 6 is provided with a valve seat 13 adapted for cooperation with a valve 14 carried by a shank 15 rigidly secured at 16 to the lower end of the tubular member 9. The valve 14 is thus attached to the nozzle so

as to be movable therewith and thereby. 55 When the table 3 is depressed, the member 9 is moved downwardly in the support 6 so as to carry the valve 14 away from its seat so as to admit the fluid to the chamber 8 from which it escapes through the nozzle 12. The 60 table 3 may be provided with perforations 17 through which the fluid may be drained from the table.

In using this device, the conduit 7 having 65 been connected to a source of fluid supply under sufficient pressure to cause the fluid to issue from the nozzle 12, the operator simply takes the container 18 and placing it in inverted position on the table 3 and over the nozzle, depresses the same so as to depress the table. This will operate the valve 14 so as to permit the fluid to issue from the nozzle and spray the interior of the container 18. The container may thus be completely coated 70 on its inside with a film of the fluid and the excess fluid drains off through the perforations 17.

75 It will be seen, therefore, that this invention provides a simple and effective method and apparatus for applying a coating to the inside of paint buckets, and one which saves considerable time in the operation. The mere placing of the container upon the table and depressing the same for a moment is sufficient to coat the interior of the container. 80 The projection of the stream of coating material under pressure and upwardly against the bottom of the bucket, not only coats the bottom but also causes the fluid to flow along 85 and also coat the side walls thereof, the surplus draining on and through the table.

90 95 It is obvious that various changes may be made in details of construction without departing from the spirit of this invention; it is, therefore, to be understood that this invention is not to be limited to the specific details shown and described.

Having thus described the invention, what is claimed is:

100 1. An apparatus for coating the interiors of metal paint buckets with oil, comprising, a support, spring members mounted on the top thereof, a table surface mounted on said springs adapted to position an inverted bucket, and depressible thereagainst by said bucket, a nozzle connected to receive oil from a source of oil supplied under pressure, and attached to said table surface at a depressed

portion thereof, for movement therewith and arranged to direct the oil against the bottom of the inverted bucket so as to flow along the side walls thereof, and drain on said table 5 surface, openings through said surface to permit drainage therethrough, and a valve rigidly connected to said nozzle and to said table for operation by movement of said nozzle and table.

10 2. An apparatus for coating the interior of metal paint buckets with oil, comprising a support having a connection to a source of oil under pressure rigidly mounted therein, said connection having a nozzle slidably mounted therein, said nozzle having a valve rigidly attached thereto and adapted to seat against

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20 said connection; a table having a depressed portion thereof rigidly secured to said nozzle for movement therewith, spring members mounted on said support around said connection and beneath said table to maintain said table, nozzle and valve normally inoperative, said table being depressible to operate the valve and adapted for engagement by a bucket inverted thereon and over said nozzle, whereby depression of the bucket will depress the table to operate the valve, said table having drain openings therethrough 25 around said depressed portion.

26 In testimony whereof I affix my signature this 22nd day of January, 1924.

FRANK W. A. HALLERMAN.