March 22, 1932. E. C. TAYLOR 1,850,700

METHOD OF APPLYING PAINT AND THE LIKE

Filed Oct. 29, 1929

Fig. 1.

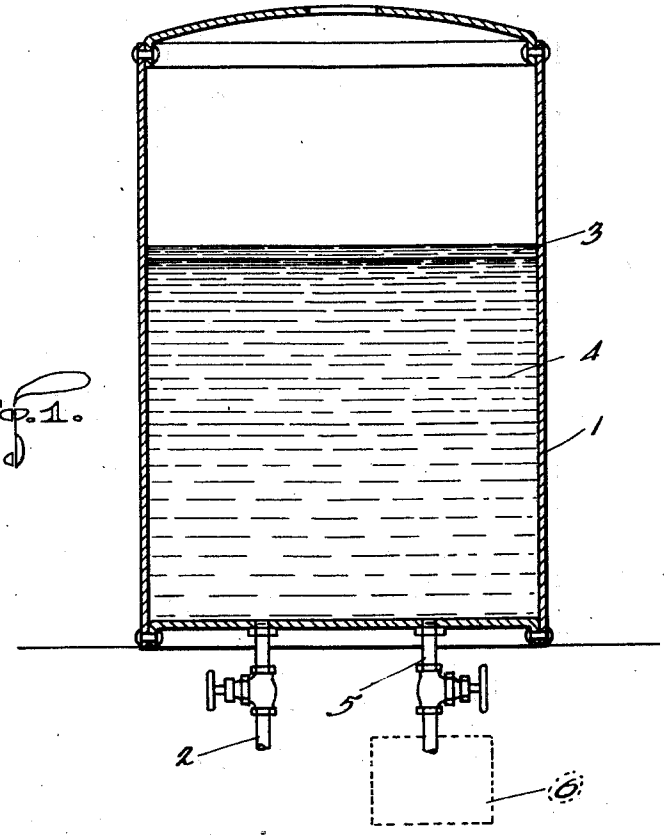
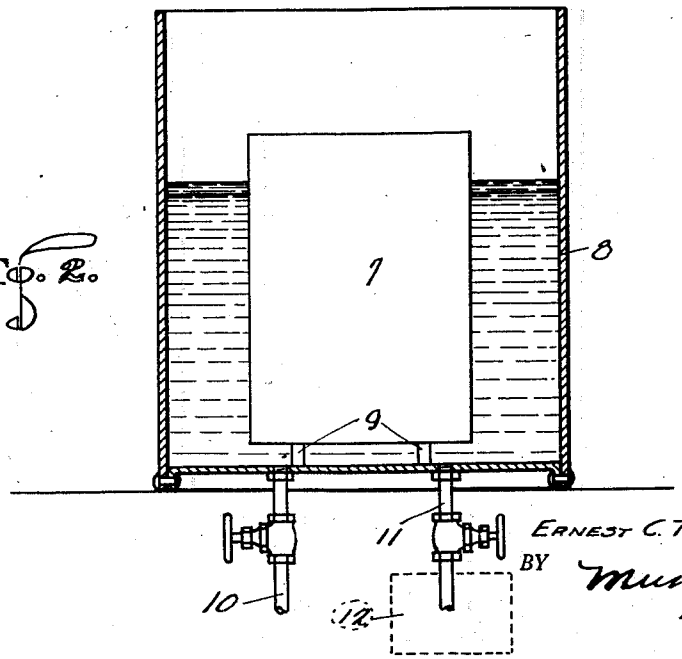


Fig. 2.



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UNITED STATES PATENT OFFICE

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METHOD OF APPLYING PAINT AND THE LIKE

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The present invention relates to a method of applying paint and the like to a surface and its principal object is to provide a simplified procedure for applying liquid paint to the inside of a vessel. At the present time it is customary to paint the inside of large tanks by means of a hand brush or a spray which is a slow, laborious process, gives imperfect results in many instances, and is accompanied by detrimental effects on the person applying the paint through the inhaling of injurious gases.

In the present invention it is proposed to apply the paint by a floating process which may be carried out with speed and without any effort on the part of the operator.

It is further proposed in the present invention to apply the same principle to the painting of the outside of a vessel or the like by dipping the same into a floating body of paint or by causing a floating body of paint to rise in contact with the vessel to be painted.

Further objects and advantages of my invention will appear as the specification proceeds.

The preferred form in which my invention may be carried out is illustrated in the accompanying drawings, in which Figure 1 shows a vertical section through a vessel to be painted on the inside, while Figure 2 shows a vertical section through a tank used for the purpose of exteriorly applying paint to a second vessel.

While I have described only the preferred forms of my invention, I wish to have it understood that various changes or modifications may be made within the scope of the claim hereto attached without departing from the spirit of the invention.

Figure 1 illustrates the manner in which my invention is applied to the coating of the inside of a vessel 1. In carrying out my process, a quantity of paint sufficient to coat the entire vessel is placed on the bottom of the same, and thereupon water is allowed to enter the vessel through the pipe 2 arranged in the bottom, so that the paint is gradually raised and floated to the top of the vessel, the drawings illustrating an intermediate stage, and showing a layer of paint 3 floating on a body of water 4. It will be noted that the surface of the tank or vessel is dry before the water reaches the same so that the body of paint overlying the water comes in contact with the dry surface and naturally adheres thereto.

I find this method of applying paint very satisfactory, and I particularly have noticed that when applied in this manner, the paint penetrates into every crevice and makes a perfect seal around rivets, at seams, and in all places where it is difficult or almost impossible to apply paint by means of a hand brush or a spray.

After the paint has reached the top of the vessel the water may be drained off through a pipe 5 so that whatever paint remains on the top of the water descends again as a body. After all the water has been withdrawn and the remaining paint starts to flow through the pipe 5 it may be caught in a bucket or any other suitable container indicated at 6.

In Figure 2 is illustrated the method of applying paint to the outside of a vessel indicated at 7. In this method I provide a tank 8 which must be larger than the vessel 7 to be painted, and I place the latter vessel inside of the tank on suitable supports indicated at 9. A quantity of paint sufficient to coat the vessel 7 is then placed on the bottom of the vessel 8 and water is introduced through the pipe 10 which causes the paint to float upward and to cover the vessel 7. After the latter is thoroughly covered the water is withdrawn through the pipe 11 and whatever point remains in the tank 8 may be caught in the container 12. It should be understood, of course, that instead of causing a floating body of paint to rise along side of and in contact with the vessel 7, I might dip the

latter into the floating body of paint with substantially similar results.

I claim:

The method of applying liquid paint or the like to the interior of a vessel which consists in placing a quantity of paint in the bottom of the vessel and in introducing water below the paint for floating the paint upward.

Signed at Sacramento in the county of Sacramento and State of California this 23d day of October, A. D. 1929.

ERNEST C. TAYLOR.