No. 702,135. Patented June 10, 1902.

G. M. HENDERSON.

DIPPING TANK.

(Application filed Oct. 14, 1901.)

(No Model.)

Fig. 1.

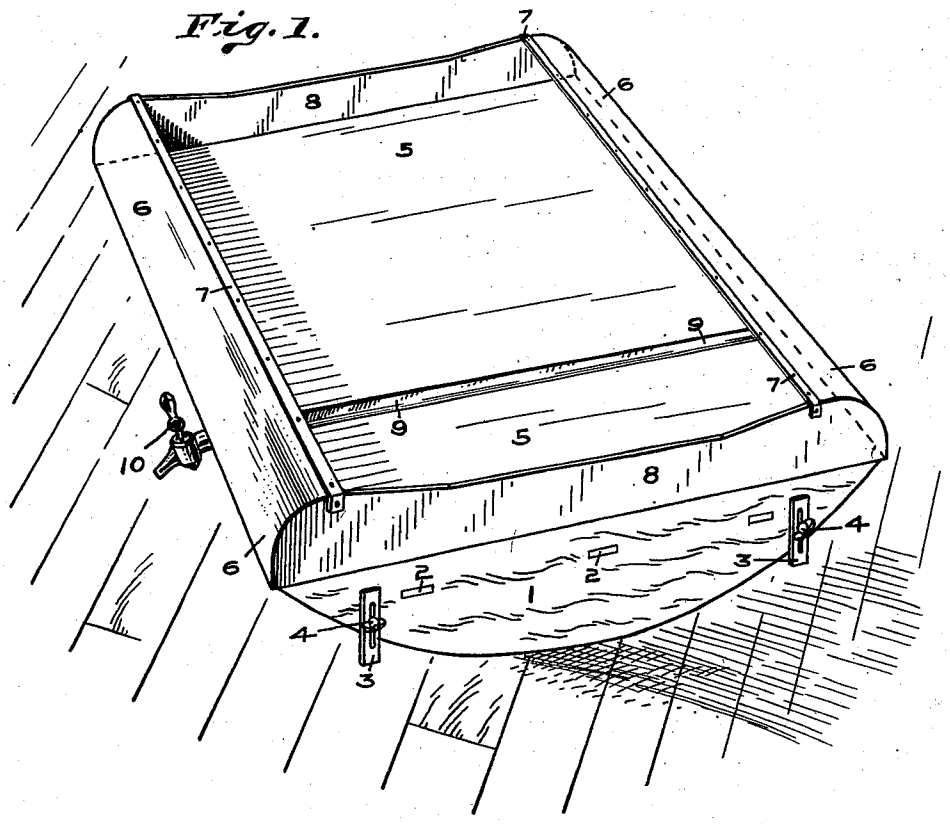


Fig. 2.

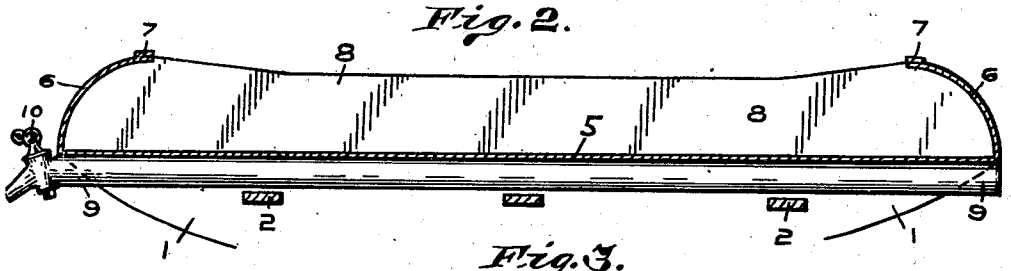
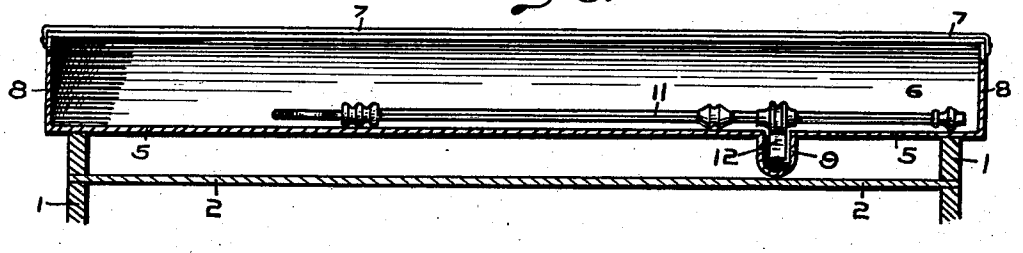


Fig. 3.



WITNESSES:

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE M. HENDERSON, OF INDIANAPOLIS, INDIANA.

DIPPING-TANK.

SPECIFICATION forming part of Letters Patent No. 702,135, dated June 10, 1902.

Application filed October 14, 1901. Serial No. 78,582. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. HENDERSON, of Indianapolis, county of Marion, and State of Indiana, have invented a certain new and useful Dipping-Tank; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like letters refer to like parts.

The object of this invention is to reduce the cost of painting iron bedsteads and the like. The reduction in such cost is effected in this invention by reason of the dipping-tank being mounted so that it will rock and in the second place by the ends of the dipping-tank being curved upward and inward, so as to prevent escape of the paint and throw the liquid paint back upon the article being painted. Toward this end I make a horizontal tank with the ends curved upward and inward toward each other and mount the same on rockers or other tilting means, whereby the bedstead or other article can be laid horizontally flat in the tank, so that comparatively a very small quantity of liquid paint is necessary and from one charge a large number of articles can be painted.

The novel features of this invention will appear in the accompanying drawings and the following description and claims.

In the drawings, Figure 1 is a perspective of my dipping-takn. Fig. 2 is a cross-section to one side of the outlet-groove. Fig. 3 is a longitudinal central section with a portion of a bedstead therein in position to be painted.

The dipping-tank is mounted on a rocking frame formed of a rocker 1 at each end, connected by three bars 2. Upon the rockers I secure a stop-block 3, that is adjustably held by the set-screw 4, whereby the extent of the tipping and rocking can be limited or regulated.

The dipping-tank is formed of sheet metal and secured upon the tilting frame above described. The tank consists of a bottom 5 with two continuous end pieces 6, that are curved upward and inward toward each other and are reinforced by the bars 7. The tank also has side walls 8, that are made vertical. The bottom has in it an outlet-groove 9, running from one end to and out of the other end, and the outlet end has a faucet 10.

The painting of iron bedsteads and the like by hand is a very tedious and expensive task. With this device one or two men can paint as many bedsteads as a dozen men can paint by hand.

I am aware that dipping-tanks have been used, but those which I have known have been stationary, and they require a large charge of liquid paint or enamel—about nine times as much as my dipping-tank—and they must also be kept full.

In operating my dipping-tank it is first charged with liquid paint, enough being introduced, preferably, to overflow the article to be placed therein. The article to be painted is then placed in a horizontal position, as shown in Fig. 3, where the head 11 of an iron bedstead appears. The bottom of the tank should be so constructed that the article to be painted will lie as low as possible. For illustration, the heads of bedsteads have jaws 12, to which the side bars are to be secured, and where iron bedsteads are the things to be painted I make the tank, as shown, having the groove 9 in the bottom of such dimensions as to receive these jaws 12, so that when the head of the bedstead is placed in the tank it will not extend more than an inch or two above the bottom. The dipping-tank is then rocked once, the article removed, and another article placed therein, and this is repeated until all the enamel or liquid paint has been used. The rocking dashes the enamel against the bedstead or article, causing all parts of the surface thereof to be covered. This rocking enables the enameling to be done with a very small quantity of enamel. The enamel settles in one end of the tank, and as the tank is rocked the enamel is thrown and washed against and over the bedstead and enables one to dip four or five colors a day or to change colors quickly.

The outlet depression or groove 9 causes the tank to be readily drained when there is but little paint in it and enables a change of paint to be quickly made.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A dipping-tank having sides and a flat bottom with the two ends thereof curved upward and inward concave toward each other, and means for supporting the tank in a horizontal position so it can be tilted.

2. A dipping-tank consisting of sides and a bottom with its ends curved upward and inward toward each other, a bar secured to the inturned edge of each end to reinforce the same, and means for tiltingly supporting said tank in a horizontal position.

3. A dipping-tank comprising a base with rockers, and a horizontal tank secured thereon with suitable sides and with the ends of the tank curved upward and inward toward each other, and a horizontal bar at each end extending from one side of the tank to the other and secured to the inner edge of the upturned ends for reinforcing the same.

4. A horizontal dipping-tank with a depression or groove extending crosswise in the bottom thereof, and means for tiltingly supporting said tank.

5. A horizontal dipping-tank with a depression or groove in the bottom thereof, and a faucet forming an outlet from said depression or groove.

6. A dipping-tank consisting of a rocking frame, and a tank mounted on said rocking frame having a flat bottom with its sides substantially vertical and its ends curved upward and inward and with the inner edges of the incurved ends reinforced by suitable bars, a depression in the bottom of said tank, and means for draining said depression.

In witness whereof I have hereunto affixed my signature in the presence of the witnesses herein named.

GEORGE M. HENDERSON.

Witnesses:
FLORENCE E. BRYANT,
V. H. LOCKWOOD.