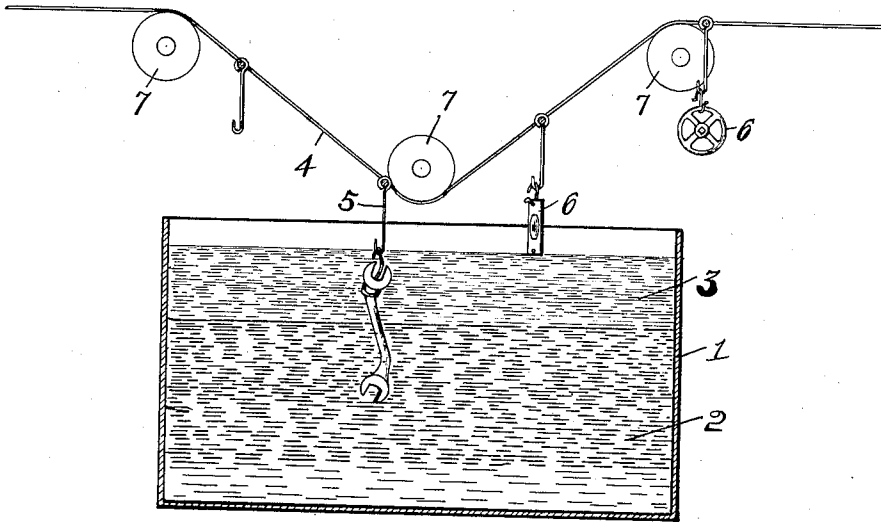


W. J. MISKELLA.
METHOD OF COATING ARTICLES.
APPLICATION FILED MAY 22, 1919.

1,329,467.

Patented Feb. 3, 1920.



INVENTOR

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His attys.

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METHOD OF COATING ARTICLES.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM J. MISKELLA, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Method of Coating Articles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the characters of reference marked thereon, which form a part of this specification.

This invention relates to the coating of articles and particularly to japanning, enameling or varnishing articles by dipping.

The method heretofore employed to accomplish this is to have the bath in which the articles are dipped contained alone in a vat or other receptacle, and to have the depth of the coating material in the vat greater than the size or length of the articles immersed therein, so that the articles may be entirely received thereby. This necessitates the use of large quantities of the coating material in the bath, especially when the articles are large, with a consequent greater fire hazard, greater loss of material by evaporation, and other disadvantages.

The object of my invention is the provision of a method of japanning, enameling or varnishing by dipping whereby the above objections are eliminated and the coating material maintained freer from dirt and more uniform, so that better work is accomplished with less expense and danger.

The invention is fully described in the following specification and is illustrated in the accompanying drawing.

Referring to the drawing, 1 designates a vat or liquid receptacle of any suitable size and containing a stratum 2 of water and on top of this a stratum 3 of the coating material employed, which may be japan, enamel or varnish, as any of these materials is lighter than water and therefore remains on the surface thereof. The stratum 3 of coating material may be comparatively thin, as shown.

If the articles being coated are small, they may be completely immersed in the coating stratum 3 alone, but if too large for this they may be passed through the coating liquid and into the water or supporting liquid 2

without objection in order that the entire surface may be brought into contact with the coating material. In the latter case the articles should be lowered slowly through the coating material to give the material an opportunity to adhere thereto, and as the articles then enter and are withdrawn from the water stratum the viscosity of the coating material prevents the water washing the same from the article or passing through it, and as the articles are then withdrawn through the coating material the water on the surface of the coated article is expelled by the material without any objectionable results by reason of the water bath.

While the dipping may be accomplished by hand, it is preferable to employ a conveyor for such purpose, which has a uniform movement and is adapted to carry the articles to the coating vat, lower them in and raise them from the liquid contained in the vat, and then carry them therefrom for drying. In the drawing, 4 designates a conveyor belt having hooks 5 suspended at intervals therefrom and adapted to carry articles 6 to be carried, and 7 are guide rolls or sheaves for directing the course of the conveyor.

It is evident that my method has numerous advantages over the methods of coating by dipping heretofore employed, there being less fire hazard, less loss of material by evaporation, less dirt accumulation in the coating material and the material is maintained in a more uniform nature.

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

1. The method of coating articles with japan, enamel or varnish consisting in immersing articles in a stratum of coating material supported by a stratum of liquid of a heavier nature.

2. The method of coating articles with japan, enamel or varnish consisting in immersing articles in a stratum of coating material supported by a stratum of water.

3. The method of coating articles with japan, enamel or varnish consisting in supporting a comparatively thin stratum of coating material on a stratum of water and slowly dipping articles in the coating material.

4. The method of coating articles with japan, enamel or varnish consisting in im-

immersing articles in a stratum of coating material supported by a stratum of liquid of a heavier nature, the articles, if of greater vertical length than the depth of the coating material, being passed through the coating material and into the supporting liquid and then withdrawn therefrom.

5 5. The method of coating articles with japan, enamel or varnish consisting in slowly

immersing articles in a comparatively thin stratum of coating material supported by water, the articles, if of greater vertical length than the thickness of the stratum of coating material, being passed into the water before withdrawing. 10 15

In testimony whereof, I have hereunto signed my name to this specification.

WILLIAM J. MISKELLA.