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APPARATUS FOR PAINTING AND DRYING.
APPLICATION FILED JAN. 25, 1916.

Patented Aug. 28, 1917.

1,238,619.

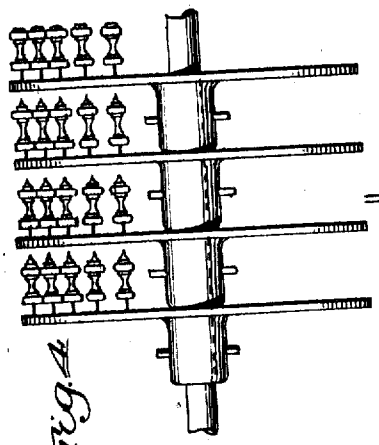


Fig. 4.

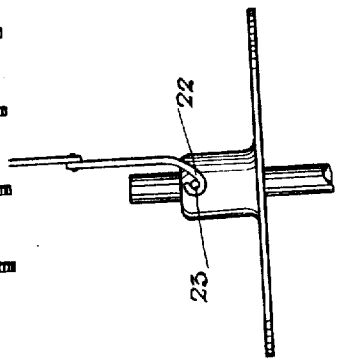


Fig. 6.

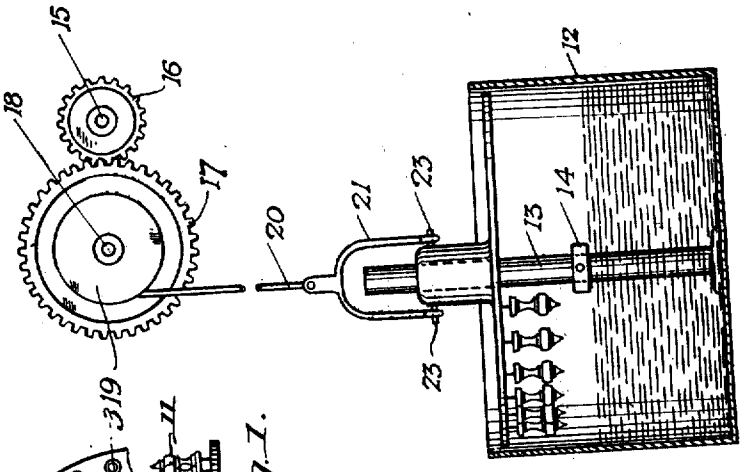


Fig. 5.

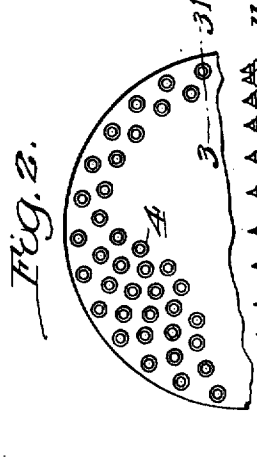


Fig. 2.

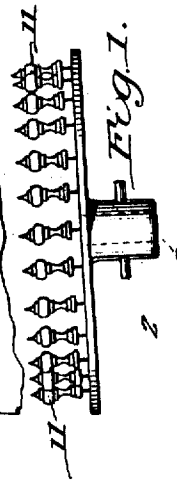


Fig. 1.

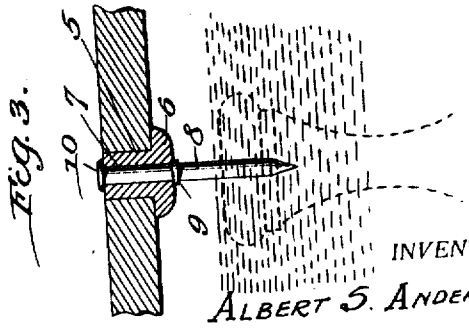


Fig. 3.

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APPARATUS FOR PAINTING AND DRYING.

1,238,619. Specification of Letters Patent. Patented Aug. 28, 1917.

Application filed January 25, 1916. Serial No. 74,168.

To all whom it may concern:

Be it known that I, ALBERT S. ANDERSON, a citizen of the United States, residing at East Chattanooga, in the county of Hamilton and State of Tennessee, have invented certain new and useful Improvements in Apparatus for Painting and Drying, of which the following is a specification.

This invention relates to apparatus for painting and drying small articles.

The main difficulty in painting and drying articles of small size, such as door stops, tops, dowels and the like, lies in the fact that it is difficult to uniformly and evenly distribute the paint on the surface of the articles and make it set while so distributed.

Therefore, the present invention has for one of its objects, a method and means for uniformly distributing a coating of even thickness over the article treated and making such coating dry while so distributed.

With the above and other objects in view, I will now proceed to describe the invention in connection with a specific form of apparatus practicing the same which I have illustrated in the accompanying drawings and which, in operation, has been found to give good results.

In the drawings:

Figure 1 is a view, in side elevation, of one of the article carrying disks.

Fig. 2 is a face view of a portion of one of the disks shown in Fig. 1.

Fig. 3 is a sectional view on the line 3—3 of Fig. 2 and showing an article immersed in paint to a predetermined depth.

Fig. 4 is a view, in side elevation, showing the disk mounted ready for moving the articles bodily in a circular path.

Fig. 5 is a view, in side elevation partly in section showing the paint supply tank and the means for immersing the articles; and

Fig. 6 is a detail view, in side elevation, of the means for attaching an article carrying disk to the means for immersing the articles.

In detail:

The apparatus comprises the disks provided with hubs 2 longitudinally bored as shown at 3 and said disks 1 are each provided with a plurality of rows of holes 4 preferably concentrically arranged. Each hole 4 receives a plug 5 having a shouldered head 6 abutting the face of the disk 1 which is opposite to the hub 2. Also each plug 5 is provided with a spike 7 having a pointed length 8, collar 9 and head 10 which latter retain said spike in position relative to the plug 5.

After a plurality of the disks have been filled with articles 11 as shown in Fig. 1 the said disks are placed on the dipping mechanism which, as shown, comprises a tank 12 having therein the vertically extending spindle 13 provided with a collar 14 just above the level of the paint. Above the tank 12 is arranged a shaft 15 carrying a gear 16 meshing with a gear 17 on a second shaft 18 which latter shaft is provided with a pulley 19 about which a cable 20 winds. The shaft 15 may be driven by a mutilated, or more particularly speaking, a sectoral gear which will permit the said shaft to oscillate. On the free end of cable 20 is a forked member 21 having on each arm thereof a hook 22 and said hooks engage with ears 23 on hubs 2 so that when the disks 1 are disposed, as shown in Fig. 6, the oscillation of shaft 15 will permit disk 1 to reciprocate on spindle 13, the collar 14 serving to limit the depth to which the articles carried by the disks are immersed and never permitting the face of a disk to receive paint.

The disks, after being removed from the dipping means, are fixed on a horizontal shaft 24 which may be suitably driven, such shaft being shown in Fig. 4. The shaft 24 is then rotated and the articles which thus move bodily in a circular path in a vertical plane with their axis extending horizontally have the paint uniformly and evenly distributed thereon. The disks are thus rotated until the paint sets.

While, in the foregoing, I have described a specific embodiment of apparatus together with a certain sequence of steps, it is nevertheless to be understood that, in practice, I may resort to such modifications as fall within the scope of the invention as defined in the appended claims.

I claim:

1. In an apparatus for distributing and drying coating on newly coated articles, a carrier, means for rigidly supporting horizontally extending articles upon said carrier, and means for supporting and continuously rotating said carrier in a vertical plane for uniformly distributing the coating upon said articles.

2. In an apparatus for distributing and drying coating on newly coated articles, a carrier, means for rigidly supporting horizontally extending articles upon said carrier, and a continuously rotatable horizontally disposed shaft upon which the carrier is adapted to be rigidly affixed for rotation in a vertical plane, whereby the coating will be uniformly distributed on said articles.

3. In an apparatus for distributing and drying coating on newly coated articles, a horizontal continuously rotatable shaft, a disk adapted to be rigidly mounted on said shaft for rotation in a vertical plane, and means for rigidly supporting horizontally extending articles upon said disk, whereby the coating will be evenly distributed on said articles.

4. In an apparatus for distributing and drying coating on newly coated articles, a disk, means for rigidly supporting horizontally extending articles upon said disk, and means for supporting and continuously rotating said disk in a vertical plane, whereby the coating will be evenly distributed on said articles.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ALBERT S. ANDERSON.

Witnesses:
A. L. LAGERGREN,
GEO. H. BEAN.