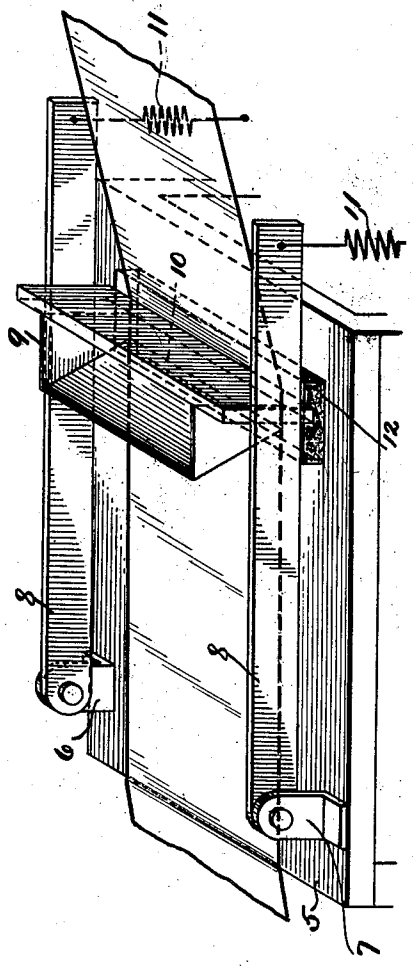
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APPARATUS FOR COATING ARTICLES

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APPARATUS FOR COATING ARTICLES

Application filed September 10, 1925. Serial No. 55,583.

My invention is directed broadly to an apparatus for coating objects and specifically to an apparatus for coating objects, such as paper plates and the like, these objects being formed from large rolls of paper as the same is received from the paper mill.

One of the objects of my invention is the provision of improved mechanism for coating the paper from which the objects to be made are formed, whereby any variation in thickness of the paper is automatically compensated for, thereby enabling the paper, once started through the mechanism, to be coated evenly throughout the remainder of its entire length and breadth. This provides a mechanism whereby a thorough even coating of the paper or other material is assured, uncoated spots or zones in the paper due to unevenness in the thickness of the paper being avoided. As a result, by the use of this improved mechanism all of the paper in the roll except, of course, the short strip which is first fed through the machine in setting up the machine, can be utilized in the making of the articles being produced.

In the accompanying drawing my improved device has been shown in plan and perspective.

Referring to the drawing, my improved device comprises a bed or table 5 over which the paper is passed, this bed carrying a pair of brackets 6 and 7 at the rear thereof, to each of which brackets is pivoted an arm or lever 8 extending to and slightly beyond the forward end of the table 5. Carried by these arms 8 is an open-bottomed tank or reservoir 9 for the coating material, the opening in the bottom thereof having been designated 10. This tank, as will be seen from the drawing, lies immediately above the paper to be coated, and extends transversely of the paper, so that the coating material contained within the tank and which, for example, may be cellulose acetate dissolved in acetone, will be applied to the paper as the same passes beneath the tank. At the forward end of each of the arms 8 I attach springs 11, the tension of which may be adjusted, if desired, these springs being provided for the purpose of holding the tank 9 in adjusted position. Immediately below the open bottom 10 of the coating tank I provide a resilient cushion or pad 12, a cushion of sponge rubber being well adapted for use in this connection, the face of this cushion lying above the face of the table. As the paper 2 is pulled through the machine and passes under the tank 9 between the bottom thereof and the cushion 12, it receives its coating material, and any inequalities in the paper, that is to say, any variations in the thickness thereof, are automatically compensated for by the cushion 12 and to some extent by the resilient mounting of the arms 8 carrying the coating tank.

It will be seen from the foregoing that I have provided a machine adapted for the manufacture of paper plates, for example, or other articles in which a roll of paper as it comes from the mill is first of all treated so as to coat the same with a grease-proof and water-proof coating, means being provided whereby this coating may be applied uniformly to the paper.

I wish it to be understood also that changes may be made in the details of construction and arrangement of parts herein illustrated and described within the purview of this invention.

What I claim is:

In an apparatus for coating material, the combination of a pivotally mounted tank or reservoir, said tank being provided with an opening in the bottom thereof for the discharge of coating material therefrom, a resilient cushion below the opening in said tank, and means for yieldingly holding said tank in adjusted position on its pivot.

This specification signed this 5th day of September, 1925.

HENRY A. STONE.