MULTIPLE LUBRICATING MEANS FOR SPINNING FRAMES AND THE LIKE

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Fig. 1

Fig. 2

Inventor

Attorney
My invention relates to means for lubricating the rolls in spinning frames, roving frames and the like, said invention comprising means for constantly feeding a lubricant to each of the rolls.

An object of my invention is to provide means adapted to fit on to the conventional structure as found in spinning frames, roving frames and the like, which will automatically feed a more or less semi-liquid lubricant to the bearings for the rollers in said frames, said means being capable of being easily refilled and requiring very little attention.

Another object of my invention is to provide a plurality of tubes mounted in a member and being adapted to fit over the roll stands in spinning frames and the like, said tubular members being adapted to receive sticks of lubricating material and to have slidably mounted therein weights for forcing the material through the tubular members against the upper portion of the bearing for the rolls in the roll stands.

Some of the objects of my invention having been stated, other objects will appear as the description proceeds when taken in connection with the accompanying drawings, in which:

Figure 1 is a plan view of a portion of a spinning frame equipped with my lubricating means;

Figure 2 is a vertical cross-section taken through a roll stand and also taken through my lubricating means mounted thereon.

Referring more particularly to the drawings, the numeral 10 indicates a roll stand in which the lower roller 11 is mounted, and secured on this roll stand is the additional bearing member 12 in which the rollers 13 and 14 are mounted and pivotally secured at the upper end of the roll 12, as at 12a, are the members 15 and 16, which members extend from one roll stand to another and have a plurality of arms 17 and 18 projecting therefrom, and in Figure 1 I have shown the two arms which project over the side portions of the roll stand, there being left a space between the members 17 and 18 and adjustable mounted on these members 17 and 18 are the members 19 and 20, which are adjustable with relation to the members 17 and 18 by means of the roll member being slotted and having the bolt 21 penetrating through both members, the lower end of the members 19 and 20 having the projections 22 and 23 thereon.

The parts thus far described are the conventional parts in a spinning frame, roving frame and the like, and I will now describe my invention as applied thereto. I provide the plate 25, which is adapted to rest on the members 17 and 18, which plate has the notches 26 and 27 in the sides thereof, which are adapted to fit over the projections 22 and 23. This plate 25 has the tubular members 28, 29 and 30 secured therein, which members project downwardly into close proximity with the bearing portion of the rolls 11, 13 and 14, and pivotally mounted, as at 31, is the member 32 which has a plurality of eye-bolts 33, 34, and 35 secured therethrough, the lower ends of these bolts having secured therein the flexible members such as chains 36, 37 and 38, and on the lower ends of these chains are secured the circular weights 40, 41 and 42, which weights are adapted to press against the upper ends of sticks of lubricating material 43, 44 and 45, the lower ends of the lubricating material being adapted to rest against the bearing portions of the rolls 11, 13 and 14. The lower end of the member 25 has the snap member 46 secured thereon, which is adapted to hold the member 32 securely in position.

In operation my device works as follows:

The member 32 is placed in position between the projections 22 and 23 and the snap 46 is pulled outwardly and the member 32 is raised upwardly, thus bringing the weights 40, 41 and 42 out of the hollow members 28, 29 and 30, and the sticks semi-liquid lubricating material, indicated by the reference numerals 43, 44 and 45, are placed in the hollow members and the weights 40 to 42 inclusive are again placed into the members 28, 29 and 30 and the snap 46 is brought into place. These weights exert the proper amount of pressure on the sticks of lubricating material so as to cause them at all times to lightly engage the bearing portions of the rolls 11, 13 and 14, so that it is seen that all of the bearings in the roll stand are lubricated at all times.

If desired, I can make the members 28, 29 and 30 square, rectangular or any other desired shape without departing from the spirit of my invention, and in the drawings and specification I have set forth a preferred embodiment of my invention, and although
5 specific terms are employed, they are used in a generic and descriptive sense only and not for purposes of limitation, the scope of
the invention being set forth in the appended claims.
1 claim:
1. In a lubricating device for spinning frames, roving frames, and the like a plurality of hollow members adapted to be secured over the roll stands of said frames and adapted to have placed therein a lubricant, means for forcing the lubricant through said hollow members into engagement with the bearing portions of the rolls carried by the roll stands, and a pivoted member to which the forcing means are secured.
2. In a lubricating device for spinning frames, roving frames and the like, a member adapted to be positioned above the bearing portions of said roll stands, said member having a plurality of hollow members projecting therefrom downwardly towards the bearing portions of the roll stands, said hollow members being adapted to receive sticks of lubricating material, and weight members adapted to rest in the hollow members on the lubricating sticks to force the same downwardly into engagement with the bearing portions of the rolls carried by the roll stands, and a pivoted member to which the weight members are secured.
3. In a lubricating device for spinning frames, a plate member adapted to rest on a portion of the spinning frame, a plurality of tubular members mounted in the plate member and adapted to receive sticks of lubricating material, a plurality of weight members adapted to rest in the hollow members on top of the sticks of lubricating material and to force the same through the hollow members, a second plate member pivotally secured to the first plate member and having a plurality of chains secured thereto, the other ends of the chains being secured to the said weight members.
4. In a lubricating device for spinning frames, a plate member adapted to rest on a portion of the spinning frame, a plurality of tubular members mounted in the plate member and adapted to receive sticks of lubricating material, a plurality of weight members adapted to rest in the hollow members on top of the sticks of lubricating material and to force the same through the hollow members, a second plate member pivotally secured to the first plate member and having a plurality of flexible members secured thereto, the other ends of the flexible members being secured to the said weight members.

In testimony whereof I affix my signature.

WILLIAM C. McGEE.