Aug. 13, 1935. J. R. HILTNER ET AL 2,011,406

RAYON SPINNING BUCKET COMPARTMENT

Filed June 29, 1934

Fig. 1.

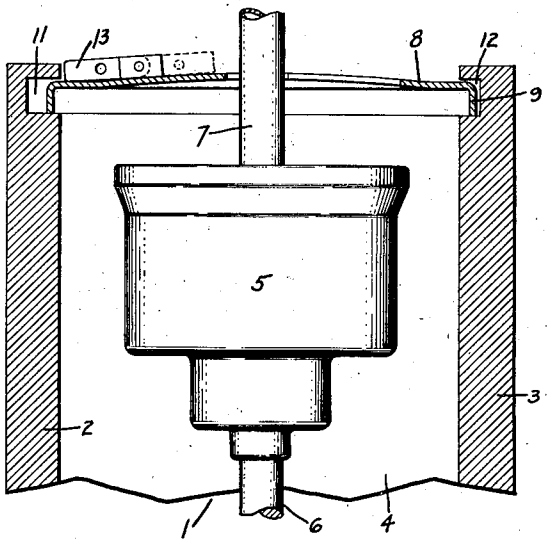



Fig. 2.

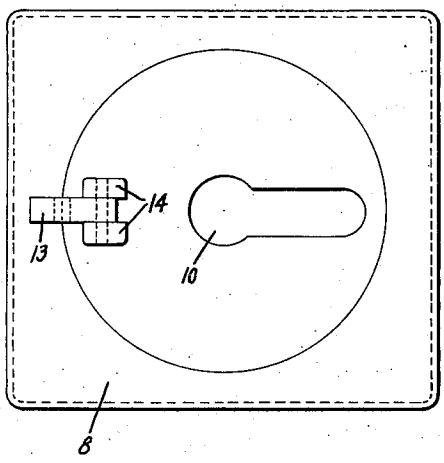
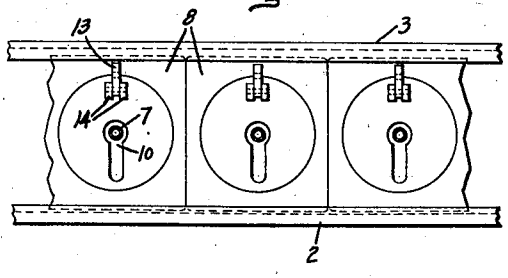



Fig. 3.




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## RAYON SPINNING BUCKET COMPARTMENT

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3 Claims. (Cl. 220—41)

In the manufacture of rayon, the spinning buckets are arranged in a row in a relatively long, narrow compartment. The compartment has an open top which is closed by a plurality of removable cover members, one over each bucket, the arrangement being such that the covers may be slid longitudinally of the compartment. Also, each cover is provided with a locking means which serves to lock it against removal but at the same time premits it to be slid longitudinally along the compartment.

The object of the present invention is to provide an improved construction and arrangement of such apparatus, and for a consideration of what we believe to be novel and our invention, attention is directed to the accompanying description and the claims appended thereto.

In the drawing, Fig. 1 is a transverse sectional view through a rayon spinning bucket compartment and cover; Fig. 2 is a top plan view of a cover, and Fig. 3 is a top plan view of a portion of a compartment showing a plurality of covers in place. Fig. 3 is on a scale smaller than Figs. 1 and 2.

Referring to the drawing, 1 indicates a rayon spinning bucket compartment comprising side walls 2 and 3, end walls 4, and a suitable bottom wall (not shown). The spinning buckets are arranged in a row in the compartment, one such bucket being indicated at 5. The spinning bucket is carried on the upper end of a shaft 6 which may be driven from an electric motor (not shown). At 7 is a supply tube through which the material to be spun into thread is conveyed to the bucket 5. The open top of the compartment is closed by a plurality of compartment covers 8, one over each bucket. A cover and two adjacent covers are indicated in Fig. 3. The covers 8 may be formed from suitable acid resisting material such as, for example, a suitable molding compound comprising an artificial resin and a filler. The covers are rectangular and comprise a top wall surrounding which is a downwardly turned flange 9. In the top wall of the cover is a keyhole slot 10 through which tube 7 projects.

In the upper edge of wall 2 is a longitudinally extending inwardly facing groove 11 and opposite it in wall 3 is a similar groove 12. The side edges of covers 8 are located in grooves 11 and 12, the arrangement being such that the top walls of the grooves overlie the tops of the covers. The groove 11 is deeper than the groove 12 by an amount such that by sliding a cover 8 sidewise, it may be moved into groove 11 a distance sufficient to bring its opposite side edge out of groove 12. By this arrangement, a cover may be removed by sliding it sidewise until its one edge is out of groove 12 and then removing it by an upward angular motion.

Each compartment cover is provided with a locking means for locking it against sidewise movement. It is important that the locking means utilized be simple in structure, so that it may be manufactured at low cost, and easy to operate, but at the same time, it is necessary that it effectively lock the cover against removal. Such a locking means is provided by the present invention.

The locking means comprises a finger 13 pivoted between two ears 14 on the upper surface of the cover, for swinging movement transversely of the cover. Ears 14 may be formed as an integral part of the cover or they may be formed separately and fastened to the cover. Preferably, they are formed integral wtih the cover, being molded as a part of it when the cover is made. They are spaced from the edge of the cover a distance such that they do not interfere with the sidewise movement of the cover when it is being removed. Finger 13 when in the full line position shown in Fig. 1 serves to lock the cover against sidewise movement. To unlock the cover, it is necessary merely to swing the finger on its pivot to the dotted line position shown in Fig. 1. The end of the finger then prevents sidewise movement of the cover. As will be seen in Fig. 1, finger 13 when in the locking position is spaced slightly from wall 2 so as not to bind the cover in position but leave it free for longitudinal movement. The locking finger is a part of the cover and moves with it so that it is always in position to be utilized and cannot be lost or misplaced. When in either the locked or unlocked position, it lies close against the top of the cover where it is out of the way and hence not likely to be accidentally struck and knocked off.

What we claim as new and desire to secure by Letters Patent of the United States, is:

1. In combination, a rayon bucket compartment having side walls with longitudinally extending grooves adjacent to their upper inner edges, a compartment cover having its side edges in said grooves, one of said grooves being of a depth such that the cover may be moved into it sufficiently far to remove its other edge from the opposite groove, and locking means for the cover comprising a finger pivoted on the cover for movement transversely of the cover to and from a position where its free end is adjacent to the side

wall having the groove into which the cover is adapted to be moved.

2. In combination, a rayon bucket compartment having side walls with longitudinally extending grooves adjacent to their upper inner edges, a compartment cover of molded material comprising a top wall and side flanges, side edges of said cover being located in said grooves and one of said grooves being of a depth such that the cover may be moved into it a distance sufficient to remove its other edge from the opposite groove, and a locking finger pivoted on the cover for turning movement into and out of locking position.

3. A rayon bucket compartment cover comprising a top wall and a downwardly turned flange formed from acid resisting molded material, and a cover lock on the top wall comprising a finger pivoted to swing transversely of the cover, the pivot for the finger being spaced from the edge of the cover a distance sufficient to permit of a predetermined sidewise movement of the cover when the finger is swung to unlocking position.

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