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R. W. GOSSETT

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SPINNING FRAME

Filed April 8, 1924

Fig. 1.

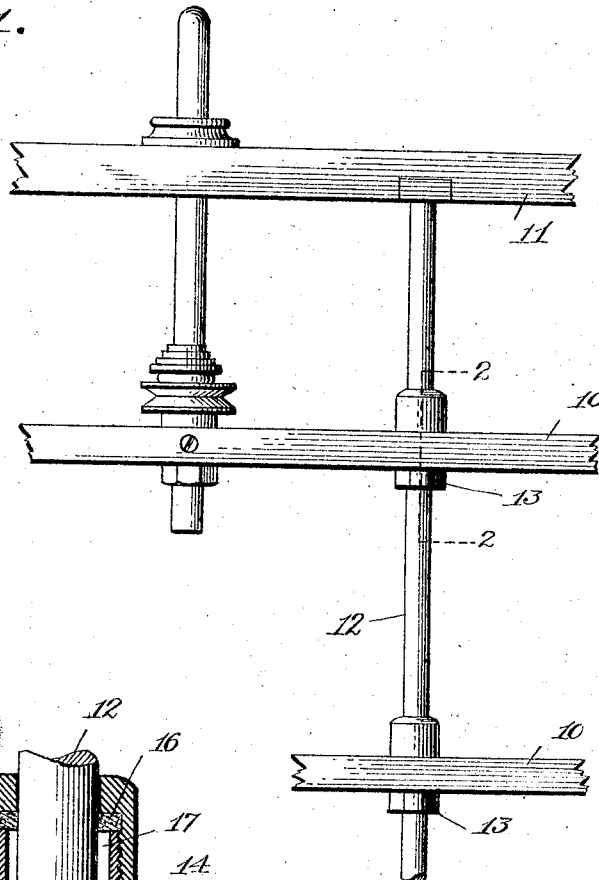
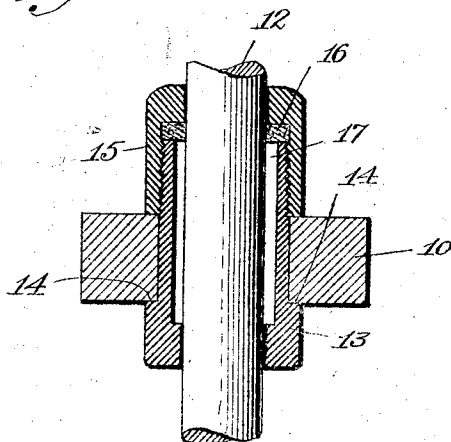


Fig. 2.



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SPINNING FRAME.

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To all whom it may concern:

Be it known that I, ROBERT W. GOSSETT, a citizen of the United States of America, and a resident of Spartanburg, county of Spartanburg, and State of South Carolina, have invented certain new and useful Improvements in Spinning Frames, of which the following is a full and clear specification.

This invention has relation to that type of spinning frame in which a plurality of rods are arranged to reciprocate vertically through the bottom rail and the bobbin rail for the purpose of reciprocating the ring rail which is mounted on the upper ends of the rods, as more fully hereinafter set forth.

In the drawing—

Fig. 1 is a side elevation of a portion of a well-known type of spinning frame showing my invention applied thereto; and

Fig. 2 is a vertical sectional view taken through one of the bushings.

In the drawing annexed, 10 designates the two stationary rails, 11 the ring rail mounted on top of the vertically-reciprocating rods 12 which pass through bushings in the rails 10. This invention has special reference to the construction of the bushings.

Each bushing consists of two sleeves, the inner one 13 being passed up through a hole in the rail 10 until an annular shoulder 14, preferably in nut form for the easy application of a wrench, abuts against the under side of the rail. The other sleeve 15 of the bushing is internally threaded to adapt it to screw down on the externally-threaded upper part of the inner sleeve, the lower end of this bushing 15 abutting the top side of the rail to thus clamp the bushing to the rail. The upper member has its upper end closed except for a central hole for the passage of the rod, and between this upper end of the sleeve and the top end of the inner sleeve is clamped a washer 16 which serves to wipe the rods and keep the rods clean and the dust out of the interior of the bushing. The interior of the inner bushing 13 has a diameter larger than the rod, so as to thereby pro-

vide an annular space 17 therearound for the collection of any dust that might pass down between the washer and the rod. The hole in the lower closed end of the inner bushing 13 fits the rod so as to assist the upper end of the cap 15 in guiding the rod and at the same time close the dust-chamber 17.

With a device such as described, it will be observed that the rods are guided smoothly and are kept clean, gumming up being entirely avoided; in this way friction is reduced to a minimum. It will also be observed that, should the bushing members become unscrewed, they will not become detached from the machine and lost on the floor, but, on the contrary, will remain threaded on the rod, in position to be easily connected up again.

What I claim as new is:

1. In a spinning frame, a ring-rail and a stationary rail, a rod for lifting the ring-rail extending through the stationary rail, and a bushing mounted on the stationary rail for guiding the rod, said bushing consisting of two sleeves, one screwing into the other and each having a hole through its end fitting the rod, the rail being clamped between a shoulder on the lower member and the lower end of the upper member.

2. In a spinning frame, a ring-rail and a stationary rail, a rod for lifting the ring-rail extending through the stationary rail, and a bushing mounted on the stationary rail for guiding the rod, said bushing consisting of two sleeves, one screwing into the other and each having a hole through its end fitting the rod, the rail being clamped between a shoulder on the lower member and the lower end of the upper member, the interior of the inner bushing being larger in diameter than the rod and an elastic wiper-washer being clamped between the upper end of the inner member and the upper end of the outer member.

In testimony whereof I hereunto affix my signature.

ROBERT W. GOSSETT.