J. H. REEDY.

PAPER ROLL MOUNTING.

APPLICATION FILED OCT. 25, 1919.

1,419,982. **Patented June 20, 1922.**

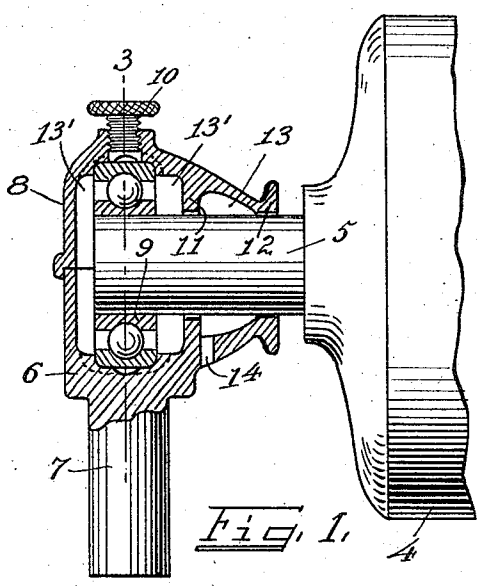


Fig. 1.

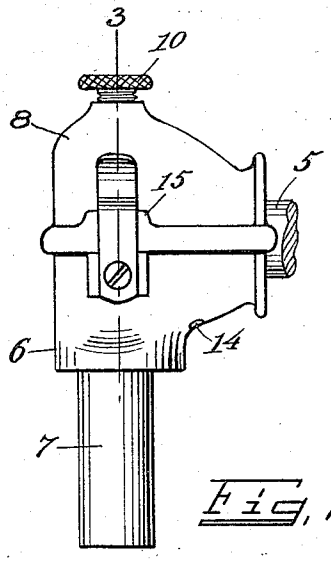


Fig. 2.

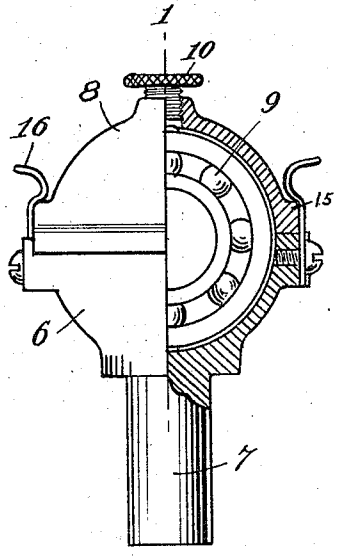


Fig. 3.

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UNITED STATES PATENT OFFICE.

JOHN H. REEDY, OF HAMILTON, OHIO.

PAPER-ROLL MOUNTING.

1,419,982. Specification of Letters Patent. Patented June 20, 1922.

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To all whom it may concern:

Be it known that I, JOHN H. REEDY, a citizen of the United States, residing at Hamilton, Butler County, Ohio, have invented certain new and useful Improvements in Paper-Roll Mountings, of which the following is a specification.

This invention, pertaining to improvements in the mountings of the rolls of paper making machines relates to a provision for permitting the easy rotation of the roll and for its ready removal from and replacement in its support.

The improvement will be readily understood from the following description taken in connection with the accompanying drawing in which:—

Fig. 1 is a side elevation of one end of a roll, its support appearing in vertical section in the plane of line 1 in Fig. 3:

Fig. 2 a side elevation of a roll support: and

Fig. 3 an end elevation of the mounting, or roll-support, half appearing in vertical section in the plane of lines 3 of Figs. 1 and 2.

In the drawing:—

1 and 3, indicate planes of section in the drawing, which planes have been referred to:

4, one end of one of the rolls, felt-roll or paper roll:

5, an end journal-piece of the roll:

6, the support for the bearing of the roll:

7, the usual shank projecting down from the support 6 and adapted to be received in the usual socket in the frame of the machine:

8, a removable cap secured to the support, over the journal:

9, a ball-bearing cooperating between the journal-piece and the support and the cap, one member of this ball-bearing being fast on the journal-piece, the outer member being seated, non-rotary, in the support and its cap:

10, a removable plug in the cap over the ball-bearing:

11, a flange formed in the support and cap, between the ball-bearing and the roll, and loose with reference to the journal-piece:

12, a similar flange formed on the support and its cap, between the flange 11 and the roll:

13, a recess in the support and cap, between flanges 11 and 12:

13′, recesses in the support and its cap, at each side of the ball-bearing:

14, a drain-hole communicating with the lower portion of recess 13:

15, upwardly presenting shoulders on the exterior of cap 8, one shoulder at each of the sides of the cap: and

16, spring catches secured to the support and engaged over the shoulder 15, and displaceable therefrom.

The inner member of the ball-bearing is to be fast on the journal-piece, while the outer member of the ball-bearing is to be held, non-rotary, but removable in the support and cap. Lubricant introduced into the support through the hole closed by plug 10, finds its way into recesses 13′ and to the balls.

Surplus lubricant may flow past flange 11, and find its way out through the drain-hole, without finding its way to the roll where it may prove injurious.

By releasing the latch-springs, the cap may be removed, after which the roll, with the entire ball-bearing structure, may be removed from the support.

The shank of the support is cylindrical and is to fit and be adjustable in its socket in the machine frame, as usual.

I claim:—

1. A paper-roll mounting comprising, a roll having a projecting journal-piece, a ball-bearing having its inner member fast with said roll, a support and cap enclosing and supporting the ball-bearing with its outer member held against rotation, the support having a recess at each side of the ball-bearing, and a removable plug closing an oil-hole communicating with said recesses, combined substantially as set forth.

2. A paper-roll mounting comprising, a roll having a projecting journal-piece, a ball-bearing having its inner member fast with said roll, a support and cap enclosing and supporting the ball-bearing, the support and cap being provided with a recess at the side of the ball-bearing between the

ball-bearing and the roll and with a second recess between the first mentioned recess and the end of the roll, an oil-hole in the cap in communication with the first mentioned recess, and a drain-hole communicating with the last mentioned recess, combined substantially as set forth.

3. A paper roll mounting comprising a roll having a projecting journal piece, a ball bearing having its inner member mounted upon said journal piece, a support and cap enclosing and supporting the ball bearing with its outer member held against rotation, the support having a recess at each side of the ball bearing for the reception of lubricant, and means through which lubricant may be supplied to said recesses.

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Witnesses:
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