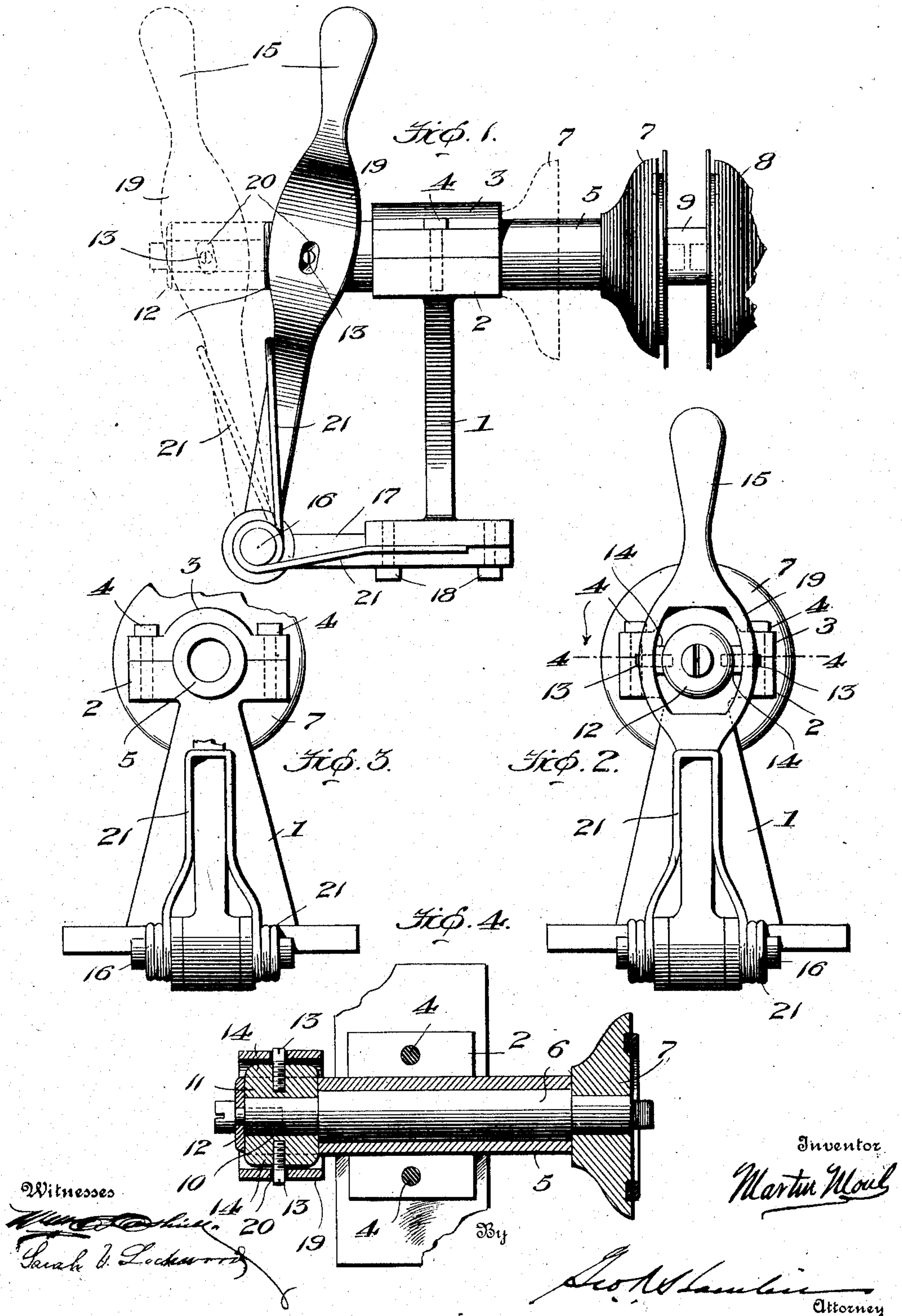


No. 864,429.

PATENTED AUG. 27, 1907.

M. MOUL.
JOURNAL FOR WINDING BOBBINS.
APPLICATION FILED MAY 15, 1907.



UNITED STATES PATENT OFFICE.

MARTIN MOUL, OF HANOVER, PENNSYLVANIA.

JOURNAL FOR WINDING BOBBINS.

No. 864,429.

Specification of Letters Patent.

Patented Aug. 27, 1907.

Application filed May 15, 1907. Serial No. 373,861.

To all whom it may concern:

Be it known that I, MARTIN MOUL, a citizen of the United States, residing at Hanover, county of York, and State of Pennsylvania, have invented certain new and useful Improvements in Journals for Winding Bobbins of Bobbin and Spool Machines, of which the following is a specification.

My invention relates to journals for winding bobbins of bobbin and spool machines.

10 In bobbin and spool machines, the rotary disks which revolve the bobbin must be capable of separation far enough to admit the bobbin between them which has heretofore necessitated having the shaft extend beyond the journal so far that the journal soon wears so loose that the bobbin runs unsteadily, causing bad work.

15 The present invention has for its object the provision of a novel movable journal for the bobbin whereby the shaft is provided with a long bearing which conduces to steadiness of rotation of the bobbin, even wear, simplicity and ease of operation in renewing the journal, and facility in placing the bobbin or removing it.

The invention is set forth fully hereinafter and its novel features are recited in the appended claims.

25 In the accompanying drawings:—Figure 1 is a side elevation, dotted lines showing the shaft, journal and disk retracted for the removal of a bobbin; Fig. 2, an end view; Fig. 3, a view like Fig. 2 but showing the handle broken away and shaft removed; and Fig. 4, a section on line 4—4 of Fig. 3.

30 The numeral 1 designates a bearing standard having a journal box 2 which has a removable cap 3 secured by screws 4. Slidable through the box 2 is a tubular or sleeve-like journal 5, in which is journaled a shaft 6, to one end of which is secured a disk 7 which is a companion to a power-driven disk 8 carried by a shaft which is independent of shaft 6. The bobbin 9 is held between and against the disks 7 and 8 and is rotated by disk 8. Shaft 6 has a reduced end 10 which carries and 40 revolves in a collar 11 held between the end of journal

5 and a cap 12. Screws 13 are threaded into the sleeve 11 through ribs 14 on the sides thereof. A handle 15 which is pivoted on a pin 16 held by a bracket 17 secured by screws 18 to standard 1, has a yoke 19 receiving the collar 11 and provided with slots 20 into which the blank ends of the screws 18 project. A spring 21 coöperating with handle 15, keeps the disk 7 against the bobbin 9.

If the bobbin is in the position shown it is adapted for revolution by the disk 8 but can be readily removed 50 by retracting handle 15, the journal 5 slipping through the bearing 2. Another bobbin can then be inserted and the handle released to permit the bobbin to be clutched by and between the disks 7 and 8. While the shaft 6 is revolving, the journal 5 remains stationary. 55

By the provision of the slip journal carrying the revoluble shaft, the latter is provided with a relatively long bearing, which tends to great steadiness in running of the shaft and bobbin, overcoming the defects heretofore incident to bobbin journals. The removable cap 3 and detachable connections between the shaft, journal, and lever permit easy renewal of the journal when necessary. 60

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:— 65

1. In a journal for bobbins, the combination with a bearing, of a journal movable longitudinally through said bearing, a shaft rotatable in and carried by said movable journal, and spring-actuated means for shifting the shaft and journal together in one direction. 70

2. In a journal for bobbins, the combination with a bearing, of a journal movable longitudinally through said bearing, a shaft rotatable in and carried by said movable journal, and a spring-actuated handle coöperating with the shaft and journal. 75

In testimony whereof, I hereunto affix my signature in presence of two witnesses.

MARTIN MOUL.

Witnesses:

JULIUS W. FISCHER,
PAUL E. LAU.