

Title (en)

Up/down-motion apparatus for driving thread guide rail in spinning machine.

Title (de)

Vorrichtung zur Auf- und Abbewegung zum Antreiben der Fadenführerbank in einer Spinnmaschine.

Title (fr)

Dispositif à mouvement de haut en bas pour entraîner le banc guides-fil dans un métier à filer.

Publication

EP 0672766 A1 19950920 (EN)

Application

EP 95103751 A 19950315

Priority

- JP 4747194 A 19940317
- JP 7228894 A 19940411

Abstract (en)

In a spinning machine including a line shaft (2) disposed longitudinally thereof and a first toothed wheel (4) mounted on the line shaft (2) so as to corotate with the latter, a poker pillar (6) supporting a ring rail (5) has a screw portion (6a) which is in screw thread engagement with a nut member (7) supported rotatably on a frame of the spinning machine at a predetermined height position. The nut member has an outer periphery formed integrally with a second toothed wheel (7a) meshing with the first toothed wheel (4). An up/down-motion apparatus for the spinning machine includes a pulley (14) of larger diameter and a pulley (15) of smaller diameter both mounted corotatably on a supporting shaft (13) supported on the machine frame, a first belt (16) secured to the ring rail (5) at a first end and the larger diameter pulley (14) of large diameter at a second end, a thread guide rail (18) mounted fixedly at a top end of a supporting pillar (17), a bracket (21) mounted on the supporting pillar at a bottom end thereof, and a second belt (22) having a first end secured to the smaller diameter pulley (15). The thread guide rail (18) is constituted by a lappet holding angle bar or an anti-node ring holding rail. Alternatively, both the lappet holding angle bar and the anti-node ring holding rail can be moved upwardly and downwardly. <IMAGE>

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D01H 1/36

IPC 8 full level

D01H 1/36 (2006.01)

CPC (source: EP)

D01H 1/36 (2013.01)

Citation (search report)

- [X] DE 3917406 A1 19901206 - ZINSER TEXTILMASCHINEN GMBH [DE]
- [A] EP 0308823 A1 19890329 - ZINSER TEXTILMASCHINEN GMBH [DE] & JP H01148820 A 19890612 - ZINSER TEXTILMASCHINEN GMBH
- [A] DE 4106290 A1 19920903 - RIETER AG MASCHF [CH]
- [A] GB 952644 A 19640318 - TWEEDALES AND SMALLEY LTD
- [A] US 2653774 A 19530929 - BARTHOLOMEW ROBERT J, et al

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EP0953661A3; DE19815617C1; CN103995425A

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0672766 A1 19950920; EP 0672766 B1 20010822; CN 1062918 C 20010307; CN 1112611 A 19951129; DE 69522248 D1 20010927; DE 69522248 T2 20020508; TW 426048 U 20010311

DOCDB simple family (application)

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