

Title (en)

Method for running a ring-spinning machine and ring-spinning machine

Title (de)

Verfahren zum Betreiben einer Ringspinnmaschine und Ringspinnmaschine

Title (fr)

Méthode de commande d'un continu à filer et continu à filer

Publication

EP 1389640 A1 20040218 (DE)

Application

EP 03014224 A 20030625

Priority

DE 10237999 A 20020815

Abstract (en)

A ring spinning machine has a perforated suction roller (19) to provide sliver compaction in the drafting system. The effectiveness of sliver compaction, and hence the yarn hairiness, can be adjusted, e.g. by moving the position of a cover (25) or controlling the airflow. The machine is operated to achieve a limiting value of yarn hairiness, e.g. as measured by the temperature of the ring (26). An independent claim is also included for a ring spinning machine equipped for maintaining a predetermined degree of hairiness in the yarn. The hairiness can be measured indirectly by its friction properties at the ring (26) and traveler (27). This alters the ring temperature (33), which is then fed to a controller (30). Alternatively the hairiness can be measured directly by a sensor. Only some of the spinning position need be equipped to indicate hairiness and the average values used by the controller (30). The compaction device can have replaceable inserts (21) and spacers, depending on the fineness of the yarn.

Abstract (de)

Eine Ringspinnmaschine, deren Streckwerke (13) mit pneumatischen Verdichtungseinrichtungen (22,23,25) ausgerüstet sind, wird so betrieben, dass ein Grenzwert für die Haarigkeit des gesponnenen Garns vorgegeben wird und dass dann die Ringspinnmaschine bei diesem Grenzwert der Haarigkeit betrieben wird. <IMAGE>

IPC 1-7

D01H 1/02; **D01H 5/72**

IPC 8 full level

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Citation (search report)

- [Y] DE 4139067 A1 19930609 - SKF TEXTILMASCH KOMPONENTEN [DE]
- [Y] EP 0635590 A2 19950125 - INST TEXTIL & VERFAHRENSTECH [DE]
- [Y] DE 19931253 A1 20010111 - STAHLLECKER FRITZ [DE], et al
- [Y] US 6209300 B1 20010403 - STAHLLECKER HANS [DE]
- [A] WO 0151397 A1 20010719 - LUWA AG ZELLWEGER [CH], et al
- [PA] WO 03023099 A1 20030320 - RIETER AG MASCHF [CH], et al

Cited by

CN103938316A; CN106435870A; CN103938314A; CN108950762A; CN113463229A; CN102505209A; CN108893812A; CN110592747A

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