

Title (en)

Method and device of detecting an abnormality of a spool changing device of a single spindle driving type spinning machine

Title (de)

Verfahren und Vorrichtung zur Fehlererkennung in einer Spulenwechseleinrichtung an einer Spinnvorrichtung mit einzelangetriebenen Spindeln

Title (fr)

Procédé et dispositif de détection d'anomalie dans un appareil pour échanger des bobines dans un métier à filer avec des broches entraînées individuellement

Publication

EP 1199390 A1 20020424 (EN)

Application

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Priority

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Abstract (en)

When performing a spool changing operation, with an empty bobbin (E) fitted onto a spindle (2) by a gripping device (19), a torque weaker than a normal gripping force of each gripping device is applied to each spindle by each spindle motor (3). The gripping device of a spindle unit whose spindle has rotated is judged to be in an abnormal gripping state. Next, the grip is canceled, and a similar weak torque is applied to each spindle again. The gripping device of a spindle unit whose spindle has not rotated is judged to have abnormality in grip canceling. <IMAGE>

IPC 1-7

D01H 1/244; **D01H 9/04**

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [DA] US 5203155 A 19930420 - WIESE FRANZ J [IT], et al
- [A] US 5016433 A 19910521 - PUTZ OLIVER [DE], et al
- [A] DE 3805662 A1 19890907 - SKF TEXTILMASCH KOMPONENTEN [DE]

Cited by

EP2017377A3; EP2017376A1

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EP 1199390 A1 20020424; **EP 1199390 B1 20040114**; CN 1247844 C 20060329; CN 1349008 A 20020515; DE 60101773 D1 20040219; DE 60101773 T2 20041104; JP 2002129434 A 20020509

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