

Title (en)

Abnormality detecting device for drafting device of spinning machine

Title (de)

Vorrichtung zum Nachweis eines abnormalen Zustandes in einem Streckwerk einer Spinnmaschine

Title (fr)

Dispositif de détection d'une anomalie dans un système d'étirage pour un métier à filer

Publication

EP 1609893 A3 20060614 (EN)

Application

EP 05011192 A 20050524

Priority

JP 2004181567 A 20040618

Abstract (en)

[origin: EP1609893A2] A drafting device 11 drives front bottom rollers 12, middle bottom rollers 13, and back bottom rollers 14 each by two motors: front roller driving motors 16a and 16b, middle roller driving motors 17a and 17b, and back roller driving motors 18a and 18b. The driving motors are variable-speed-controlled through inverters 19a, 19b, etc. , which are provided with current sensors SA. The current sensors SA detect the amount of electric current supplied in correspondence with the load torques of the driving motors 16a, 16b, etc. A CPU 31 judges that there is abnormality when the difference between the load torques of the two motors driving each back roller is deviated from a set range.

IPC 8 full level

D01H 1/22 (2006.01); **D01H 13/14** (2006.01); **D01H 13/20** (2006.01)

CPC (source: EP)

D01H 1/22 (2013.01); **D01H 13/20** (2013.01)

Citation (search report)

- [DA] EP 1314804 A1 20030528 - TOYOTA JIDOSHOKKI KK [JP]
- [A] EP 1314803 A2 20030528 - TOYOTA JIDOSHOKKI KK [JP]
- [A] US 4646391 A 19870303 - WOLF HORST [DE]
- [A] US 4195389 A 19800401 - KLEIN KONRAD [DE], et al
- [A] US 4314388 A 19820209 - HARTMANNSGRUBER MAX, et al
- [A] DE 2735799 A1 19790222 - ZINSER TEXTILMASCHINEN GMBH
- [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 09 31 October 1995 (1995-10-31)

Cited by

EP2759623A4; ITBS20110166A1; EP2599904A1; CN103132183A; EP3153609A1; EP3599299A1; CN110747542A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1609893 A2 20051228; **EP 1609893 A3 20060614**; **EP 1609893 B1 20081203**; CN 100443644 C 20081217; CN 1710166 A 20051221; DE 602005011360 D1 20090115; JP 2006002300 A 20060105

DOCDB simple family (application)

EP 05011192 A 20050524; CN 200510074048 A 20050530; DE 602005011360 T 20050524; JP 2004181567 A 20040618