

Title (en)

System to increase production of spinning machines.

Title (de)

System zur Produktionssteigerung von Spinnereimaschinen.

Title (fr)

Système pour augmenter la production de métiers à filer.

Publication

**EP 0634507 A1 19950118 (DE)**

Application

**EP 94110331 A 19940704**

Priority

CH 210893 A 19930714

Abstract (en)

The system contains closed-loop control for deriving controlled values from parameters which influence the productivity of the spinning machine (RS). In addition to parameters which are measured by sensors, the system also takes into account for the closed-loop control those parameters which cannot be measured or can only be measured with difficulty. The latter parameters are included in the closed-loop control by means of a fuzzy logic unit, for which purpose the closed-loop control has a fuzzy controller (FC). <IMAGE>

Abstract (de)

Das System enthält eine Regelung zur Ableitung von Regelgrößen aus Parametern, welche die Produktivität der Spinnereimaschine (RS) beeinflussen. Neben Parametern, die durch Sensoren gemessen werden, werden auch solche für die Regelung berücksichtigt, die nicht oder nur schwer messbar sind. Die letzteren Parameter sind mittels einer Fuzzy-Logik in die Regelung einbezogen, zu welchem Zweck die Regelung einen Fuzzy-Controller (FC) aufweist. <IMAGE>

IPC 1-7

**D01H 13/32**

IPC 8 full level

**D01H 13/00** (2006.01); **D01H 13/32** (2006.01)

CPC (source: EP US)

**D01H 13/32** (2013.01 - EP US)

Citation (applicant)

EP 0553483 A1 19930804 - RIETER INGOLSTADT SPINNEREI [DE]

Citation (search report)

- [A] EP 0548023 A1 19930623 - RIETER AG MASCHF [CH]
- [AP] EP 0553483 A1 19930804 - RIETER INGOLSTADT SPINNEREI [DE]
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- [A] TOSHIRO TERANO, KIYOJI ASAI, MICHIO SUGENO: "fuzzy systems theory and its applications", 1991, ACADEMIC PRESS, INC. HARCOURT BRACE JOVANIVICH, BOSTON
- [A] M.F.YEUNG, K.W.SUM: "An on-line intelligent control scheme for tension control", FIRST INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS ENGINEERING, 19.-21. AUGUST 1992, EDINBURGH, pages 244 - 249

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Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 0634507 A1 19950118; EP 0634507 B1 19971015; EP 0634507 B2 20011004**; AT E159304 T1 19971115; BR 9402697 A 19950404; CH 687994 A5 19970415; CN 1048048 C 20000105; CN 1117534 A 19960228; DE 59404316 D1 19971120; ES 2108340 T3 19971216; JP 3536263 B2 20040607; JP H0748739 A 19950221; MY 130104 A 20070629; TW 277080 B 19960601; US 5511371 A 19960430

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