

Title (en)
Ring spinning machine with individual spindle drives

Title (de)
Ringspinnmashine mit Individuellen Spindelantrieben

Title (fr)
Métier à filer à anneaux avec dispositif d'entraînement de broches individuels

Publication
EP 0999298 A3 20000906 (EN)

Application
EP 99117969 A 19990916

Priority
JP 31508898 A 19981105

Abstract (en)
[origin: EP0999298A2] In a spindle driving apparatus for a ring fine spinning machine, a plurality of spindles have dedicated synchronous motors, inverters and control circuits individually connected thereto, and the control circuits are connected to a common dc power supply. Each control circuit outputs a PWM signal to the corresponding inverter, monitors a PWM duty, detects a drastic change in the driving condition of the corresponding spindle as a result of a change in the PWM duty, and stops the corresponding synchronous motor through that inverter. <IMAGE>

IPC 1-7
D01H 1/244; H02H 7/085

IPC 8 full level
D01H 1/244 (2006.01)

CPC (source: EP)
D01H 1/244 (2013.01)

Citation (search report)
• [Y] EP 0389118 A2 19900926 - HOLLINGSWORTH UK LTD [GB]
• [Y] EP 0675216 A1 19951004 - PALITEX PROJECT CO GMBH [DE]
• [A] DE 19522933 C1 19961212 - ZINSER TEXTILMASCHINEN GMBH [DE]

Cited by
CN103510196A; CN108203855A; EP1927686A3; EP1927685A1; FR2911643A1; US8667783B2; US7346272B2; WO2018024586A1;
EP1174889B2

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EP 0999298 A2 20000510; EP 0999298 A3 20000906; EP 0999298 B1 20040121; CN 1188557 C 20050209; CN 1253187 A 20000517;
DE 69914283 D1 20040226; DE 69914283 T2 20041021

DOCDB simple family (application)
EP 99117969 A 19990916; CN 99123503 A 19991105; DE 69914283 T 19990916