Title (en)

Ring spinning machine with individual spindle drives

Title (de)

Ringspinnmaschine mit Individuellen Spindelantrieben

Title (fr)

Métier à filer à anneaux avec des dispositif d'entraînement de broches individuels

Publication

EP 0999298 A2 20000510 (EN)

Application

EP 99117969 A 19990916

Priority

JP 31508898 A 19981105

Abstract (en)

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

IPC 8 full level

D01H 1/244 (2006.01)

CPC (source: EP)

D01H 1/244 (2013.01)

Cited by

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

Designated contracting state (EPC)

CH DE IT LI

DOCDB simple family (publication)

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