

Title (en)
Driving control system for spinning machine

Title (de)
Steuerungssystem für Spinnmaschinen

Title (fr)
Systeme de controle pour machines de filature

Publication
EP 1479800 A3 20051116 (EN)

Application
EP 04010092 A 20040428

Priority
JP 2003142939 A 20030521

Abstract (en)
[origin: EP1479800A2] The present invention provides a driving control system that allows a spinning machine with a large number of spinning units to continue its operation even during an instantaneous electric power failure. The driving control system works for a spinning machine having a plurality of spinning units, individual driving devices 508 provided for the respective spinning units to drive members acting directly on a bundle of fibers or a yarn, a shared driving device 50A provided to drive all of the plurality of spinning units 2, and an intra-frame member driving device 50C that drives members not acting directly on the bundle of fibers or yarn. The driving control system includes electric power failure detecting means 56 for detecting an electric power failure in a system electric power source 51 for the driving devices 50A, 50B, 50C, deceleration control means 57 for controllably decelerating the intra-frame member driving device 50C, and supply means 54 for supplying the individual driving devices 50B for the respective spinning units with regenerative electric power resulting from the deceleration control (Fig.1). <IMAGE>

IPC 1-7
D01H 13/14

IPC 8 full level
D01H 1/28 (2006.01); **D01H 1/32** (2006.01); **D01H 4/42** (2006.01); **D01H 13/00** (2006.01); **D01H 13/14** (2006.01)

CPC (source: EP)
D01H 4/42 (2013.01); **D01H 13/14** (2013.01)

Citation (search report)
• [YA] US 6532396 B2 20030311 - GAUKLER JUERGEN [DE], et al
• [YA] DE 3910183 A1 19901004 - RIETER AG MASCHF [CH]
• [A] DE 19821251 A1 19991118 - CSM GMBH [DE]
• [A] US 5113123 A 19920512 - NOSER HANS [CH], et al

Cited by
CN103806143A; EP3354775A1; IT201700010272A1; US11296621B2; US11682988B2; US10008854B2; US10951037B2; US11355936B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1479800 A2 20041124; **EP 1479800 A3 20051116**; **EP 1479800 B1 20180530**; CN 100352159 C 20071128; CN 1574606 A 20050202; JP 2004346440 A 20041209; JP 3791511 B2 20060628

DOCDB simple family (application)
EP 04010092 A 20040428; CN 200410044623 A 20040519; JP 2003142939 A 20030521