



(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
16.11.2005 Bulletin 2005/46

(51) Int Cl.7: D01H 13/14

(43) Date of publication A2:
24.11.2004 Bulletin 2004/48

(21) Application number: 04010092.7

(22) Date of filing: 28.04.2004

(84) Designated Contracting States:
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
Designated Extension States:
AL HR LT LV MK

(72) Inventors:
• Nakade, Kazuhiko
Kyoto-shi Kyoto (JP)
• Nishikawa, Kazuo
Kyoto-shi Kyoto (JP)

(30) Priority: 21.05.2003 JP 2003142939

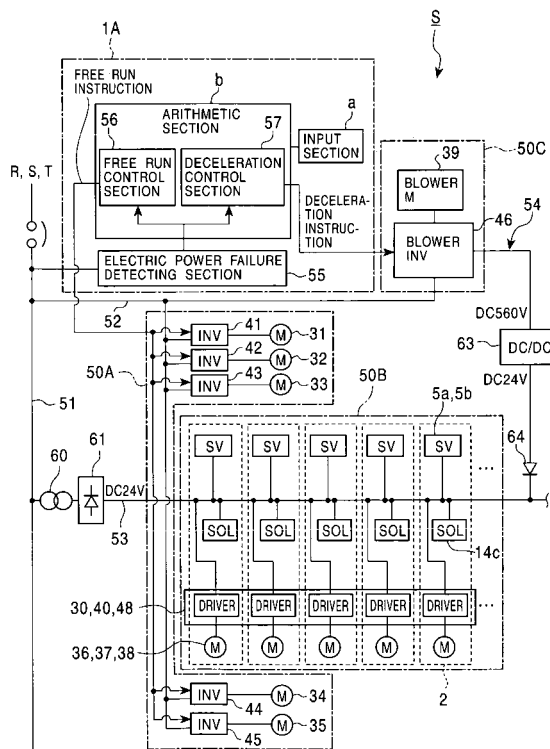
(74) Representative: Liedl, Christine et al
c/o Hansmann & Vogeser,
Albert-Rosshaupter-Strasse 65
81369 München (DE)

(71) Applicant: MURATA KIKAI KABUSHIKI KAISHA
Minami-ku Kyoto-shi Kyoto 601 (JP)

(54) Driving control system for spinning machine

(57) 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).

FIG. 1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 01 0092

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	US 6 532 396 B2 (GAUKLER JURGEN ET AL) 31 January 2002 (2002-01-31)	1,3-5	D01H13/14
A	* column 3, line 35 - column 8, line 55; figures 1,2 *	2	
Y	DE 39 10 183 A1 (MASCHINENFABRIK RIETER AG, WINTERTHUR, CH) 4 October 1990 (1990-10-04)	1,3-5	
A	* column 3, line 52 - column 6, line 57; figure 1 *	2	
A	DE 198 21 251 A1 (CSM-SAECHSISCHE SPINNEREIMASCHINEN GMBH) 18 November 1999 (1999-11-18)	1-5	D01H
A	* column 2, line 45 - column 3, line 10; figures 1,2 *	1-5	
US 5 113 123 A (NOSER ET AL) 12 May 1992 (1992-05-12) * column 4, line 66 - column 7, line 6; figures 1,2 *			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		26 September 2005	Henningsen, 0
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

1
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 04 01 0092

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-09-2005

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6532396 B2	11-03-2003	DE 10000146 A1	05-07-2001
		IT MI20010007 A1	03-07-2002
		US 2002013638 A1	31-01-2002

DE 3910183 A1	04-10-1990	NONE	

DE 19821251 A1	18-11-1999	NONE	

US 5113123 A	12-05-1992	DE 4011598 A1	17-10-1991
		EP 0451534 A1	16-10-1991
		JP 4214425 A	05-08-1992
