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- Shinozaki, Yutaka  
Kariya-shi, Aichi-ken (JP)
- Uematsu, Tatsuya  
Kariya-shi, Aichi-ken (JP)
- Odachi, Yasuharu  
Kariya-shi, Aichi-ken (JP)

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(71) Applicant: Kabushiki Kaisha Toyota Jidoshokki  
Seisakusho  
Aichi-ken (JP)

(74) Representative: HOFFMANN - EITLE  
Patent- und Rechtsanwälte  
Arabellastrasse 4  
81925 München (DE)

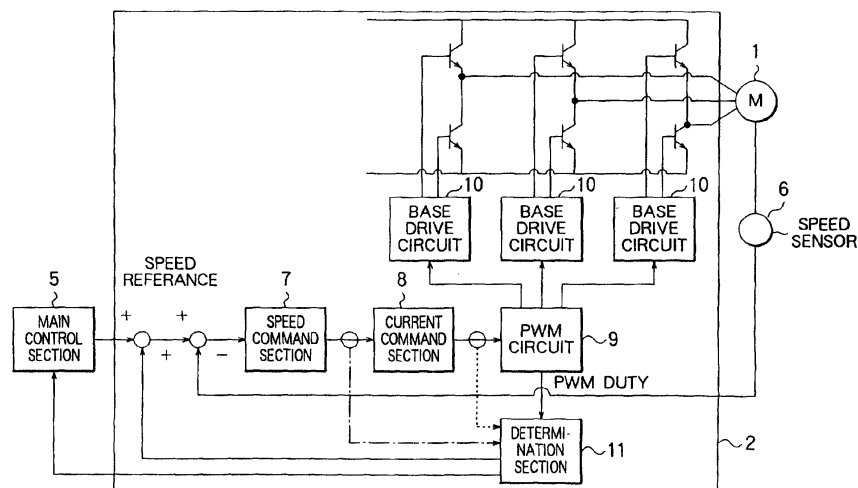
(72) Inventors:  
• Tsuboi, Masayoshi  
Kariya-shi, Aichi-ken (JP)

(54) Ring spinning machine with individual spindle drives

(57) 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.

FIG. 2





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# EUROPEAN SEARCH REPORT

Application Number  
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			D01H H02H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17 July 2000	Examiner Henningsen, O
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p> <p>&amp; : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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