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### (54) Yarn detecting system for spinning machine

(57) A yarn detecting system for a spinning machine includes a plurality of yarn detecting units, a signal transmitter and a signal receiver. Each ring plate is provided for a plurality of spinning stations. The yarn detecting unit is provided for each ring plate and includes a plurality of yarn detecting devices which is provided for the respective spinning stations and each of which includes a sensor and generates a detection signal indicative of a state of yarn at the spinning station and a determining device which determines the state of the yarns according to the detection signals and generates first pulse signals representing the state of the yarns. Signal transmission is performed from the determining device to the main controller and the signal transmission between the signal transmitter and the signal receiver provided between the adjacent ring plates is performed in a non-contact manner.

FIG. 1A

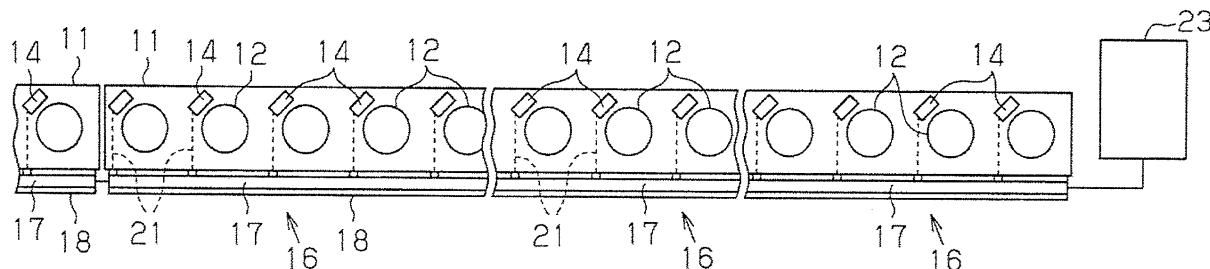
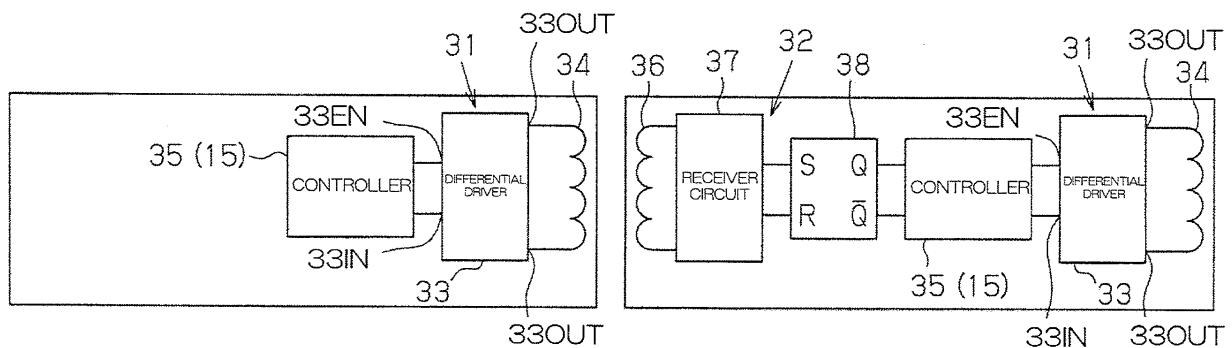


FIG. 1B



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## EUROPEAN SEARCH REPORT

Application Number  
EP 13 18 0190

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
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			TECHNICAL FIELDS SEARCHED (IPC)
			D01H
The present search report has been drawn up for all claims			
1	Place of search	Date of completion of the search	Examiner
	Munich	17 April 2015	Dupuis, Jean-Luc
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			

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

EP 13 18 0190

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17-04-2015

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