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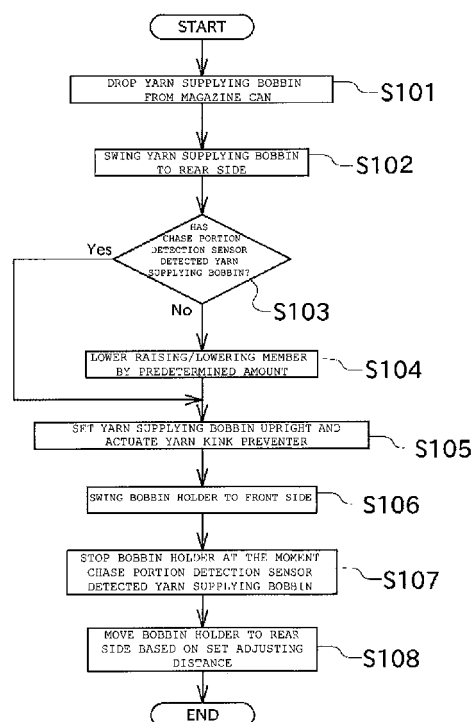
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(54) **Winding unit, automatic winder and aligning method of yarn supplying bobbin**

(57) A winder unit (winding unit (4)) includes a bobbin holder (110) holding the yarn supplying bobbin (21), a length information acquiring section acquiring length information, which is information related to an axial length of the yarn supplying bobbin, a position detecting section (74) capable of detecting the position of the yarn supplying bobbin held by the bobbin holder, a storage section (52) storing information of an unwinding standard position and information of a position where the position detecting section is arranged, and a unit control section (50). The unit control section carries out control of moving the position detecting section so that the position detecting section can detect the yarn supplying bobbin held by the bobbin holder based on the length information, and control of moving the yarn supplying bobbin to align the yarn supplying bobbin with the unwinding standard position based on the length information and a storage content of the storage section.

FIG. 10





EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
			B65H
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 4 October 2012	Examiner Pussemier, Bart
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82