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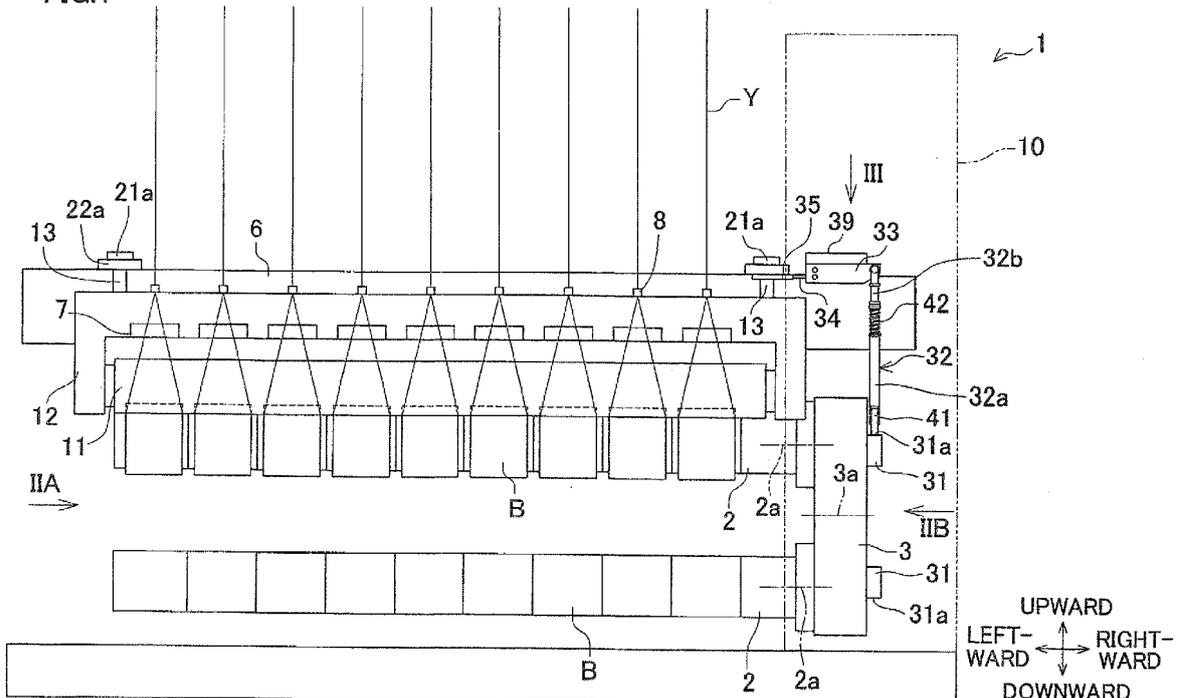
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(54) **Winder**

(57) In a winder 1, as an amount of yarns Y wound onto bobbins B increases, a turret table 3 rotates in the direction in which a bobbin holder 2 moves away from a contact roller 11. A tilt mechanism 5 transfers, by a cam 31, a cam rod 32, a force multiplying arm 33, a tie rod 34, and a tilt arm 35, the rotation of the turret table 3 to

a guide shaft 13 elevatably supports a supporting member 12, so as to tilt the guide shaft 13. As a result, as the amount of the yarns Y wound onto the bobbins B attached to the bobbin holder 2 is increased and the bobbin holder 2 is warped, the contact roller 11 supported by the supporting member 12 is tilted.

FIG.1





EUROPEAN SEARCH REPORT

Application Number
EP 11 16 6875

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			TECHNICAL FIELDS SEARCHED (IPC)
			B65H B65F
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		10 January 2013	Pussemier, Bart
CATEGORY OF CITED DOCUMENTS		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	
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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