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(54) **Yarn threading method of take-up winding apparatus, take-up winding apparatus, and suction gun**

(57) [Object] Object of the invention is providing yarn threading method of take-up winding apparatus, the take-up winding apparatus, and suction gun which make decrease entanglement between yarns and vibration and make good for take-up yarns.

[Solution means Purpose] A method for threading to a take-up winding apparatus using a suction gun includes regulating yarn paths for a plurality of yarns using a first roller 21 or a first yarn path guide 22 of the take-up winding apparatus. Between the suction gun 61 and a second

roller or a second yarn path guide 23 of the take-up winding apparatus, a third roller 24 is brought into contact with the yarns Y. The second roller and the second yarn path guide 23 are on a downstream side relative to the first roller 21 and the first yarn path guide 22. With the third roller 24 in contact with the yarns Y, the yarns Y are fed onto the second roller or the second yarn path guide 23. After the yarns are fed onto the second roller or the second yarn path guide 23, the third roller 24 is brought out of contact with the yarns Y.

FIG. 2A

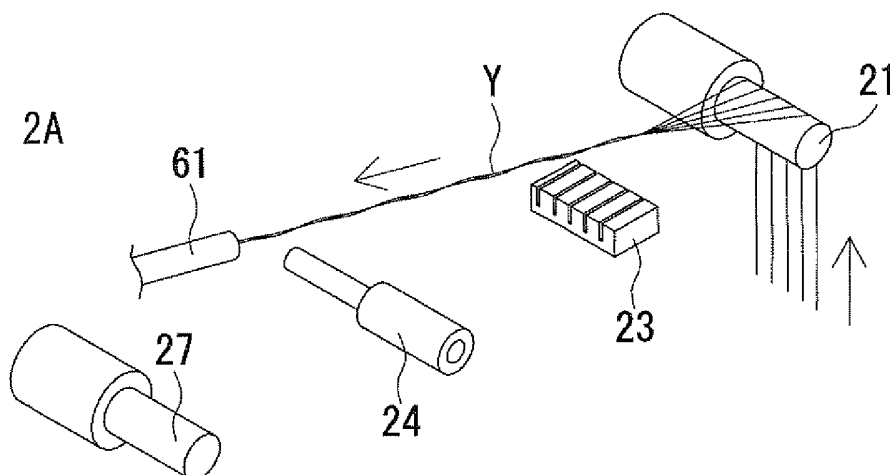
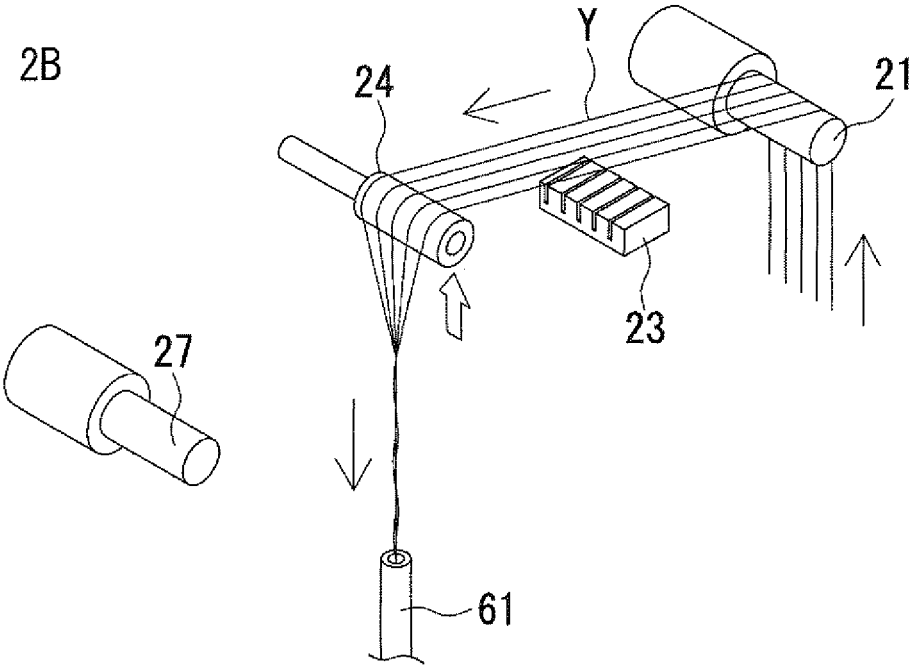


FIG. 2B





EUROPEAN SEARCH REPORT

Application Number
EP 11 16 9965

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 7 November 2012	Examiner Lemmen, René
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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