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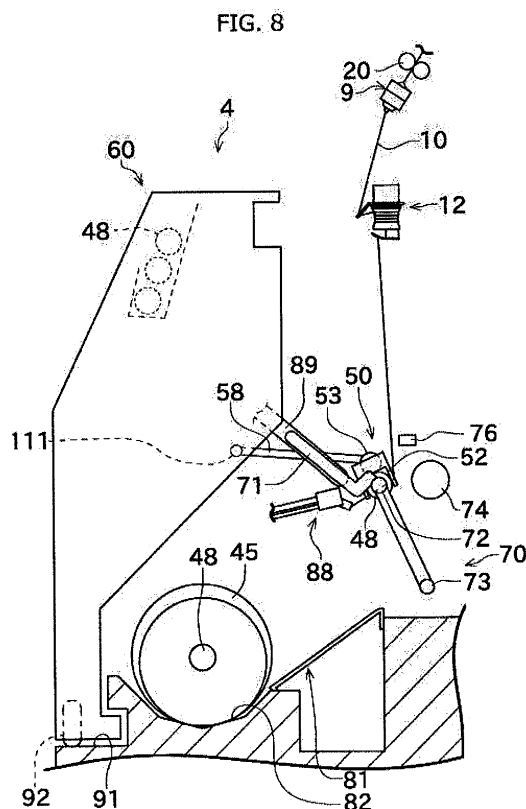
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(54) **Bobbin installation device and yarn winding apparatus including the same**

(57) A bobbin installation device (60) includes a bobbin supplying section (50) and a suction pipe (88). The bobbin supplying section (50) supplies a bobbin (48), on to which a spun yarn (10) is to be wound, to bobbin holders (72) (specifically, a position between two bobbin holders (72)) that defines a target position. The suction pipe (88) holds and guides the spun yarn (10) to be wound on the bobbin (48) supplied by the bobbin supplying section (50). The bobbin (48) and the spun yarn (10) are supplied to the bobbin holders (72) by moving the bobbin supplying section (50) and the suction pipe (88) while the spun yarn (10) is held at the end of the bobbin (48) in a shaft direction by the suction pipe (88).



**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

EP 11 18 5087

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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A	US 5 490 375 A (SPINDLER ZDENEK [CS] ET AL) 13 February 1996 (1996-02-13) * column 3, line 11 - line 46 * * column 4, line 61 - column 5, line 34 * * figures 1,5 *	1-7, 18-24	
A	US 5 022 222 A (RUPERT KARL [DE] ET AL) 11 June 1991 (1991-06-11) * column 1, line 56 - line 62 * * column 9, line 3 - column 10, line 32 * * column 11, line 16 - line 62 * * figures 1,4 *	1-7, 18-24	
			TECHNICAL FIELDS SEARCHED (IPC)
			B65H
INCOMPLETE SEARCH			
The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out. Claims searched completely : Claims searched incompletely : Claims not searched : Reason for the limitation of the search: see sheet C			
Place of search The Hague		Date of completion of the search 10 May 2012	Examiner Guisan, Thierry
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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**INCOMPLETE SEARCH
SHEET C**

Application Number
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Claim(s) completely searchable:
1-7, 18-24

Claim(s) not searched:
8-17

Reason for the limitation of the search:

Rule 62a EPC.

**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 11 18 5087

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82