



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11)

**EP 1 352 996 A3**

(12)

**EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**04.02.2004 Bulletin 2004/06**

(51) Int Cl.7: **D01H 4/00**, D01H 1/16,  
D01H 13/16

(43) Date of publication A2:  
**15.10.2003 Bulletin 2003/42**

(21) Application number: **03466009.2**

(22) Date of filing: **09.04.2003**

(84) Designated Contracting States:  
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR  
HU IE IT LI LU MC NL PT RO SE SI SK TR**  
Designated Extension States:  
**AL LT LV MK**

(72) Inventors:  
• **Sloupensky, Jiri**  
**Cs. armady 869 (CZ)**  
• **Kousalik, Pavel**  
**Trebovska 450 (CZ)**  
• **Stusak, Miroslav**  
**V zahradach 458 (CZ)**

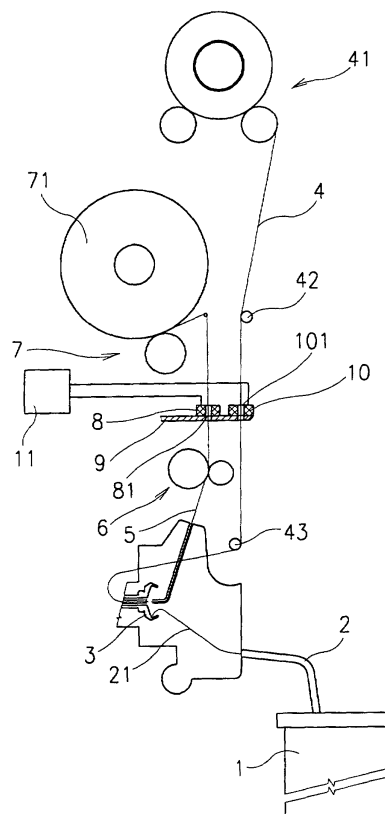
(30) Priority: **10.04.2002 CZ 20021258**

(71) Applicant: **Rieter CZ a.s.**  
**562 15 Usti nad Orlici (CZ)**

(74) Representative: **Musil, Dobroslav, Dipl.-Ing.**  
**Cejl 38**  
**602 00 Brno (CZ)**

(54) **Device for multi-component yarn production in a rotor spinning machine and sensor for rotor spinning machines producing the multi-component yarn**

(57) The device for multi-component yarn production (5) comprising a continuous component (4) and a component spun in the rotor (3) from singled-out fibres (21) on a rotor spinning machine whose operating unit contains means for preparation of singled-out fibres (21) from sliver (2) and for their transport to the spinning rotor (3), where they are processed into a spun component, whereas the operating unit further contains means for supplying continuous component (4) to the spinning rotor (3) and means to draw off the spun multi-component yarn (5) and winding it onto the bobbin (71), while in a path of the continuous component (5) a sensor (10) of the continuous component is inserted and in path of the multi-component yarn (5) a sensor (8) of the multi-component yarn is inserted. The path of the continuous component (4) in the area of the sensor (8) of the multi-component yarn (5) is situated close to the path of the multi-component yarn (5) and in the area where the continuous component (4) is situated near to the path of the multi-component yarn (5) the continuous component (4) has a sensor (10) of the continuous component.



Obr. 1

**EP 1 352 996 A3**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 03 46 6009

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	DE 35 37 195 A (ZINSER TEXTILMASCHINEN GMBH) 23 April 1987 (1987-04-23)	10, 14, 15	D01H4/00
A	* column 4, line 50 - column 6, line 18; figures 1-3 *	1-9, 11-13, 16-19	D01H1/16 D01H13/16
D, A	--- CZ 281 809 B (RIETER ELITEX AS) 12 February 1997 (1997-02-12) * the whole document *	1-19	
A	--- WO 99 36746 A (STUSAK MIROSLAV ;RIETER ELITEX AS (CZ)) 22 July 1999 (1999-07-22) * page 5, line 21 - page 8, line 22; figures 1-5 *	10-19	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			D01H D02G
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>12 December 2003</b>	Examiner <b>Henningsen, O</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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 ..... &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03 B2 (P04C01)

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

EP 03 46 6009

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

12-12-2003

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 3537195 A	23-04-1987	DE 3537195 A1	23-04-1987
		FR 2588888 A1	24-04-1987
		GB 2181753 A , B	29-04-1987
		IT 1198040 B	21-12-1988
		JP 62117833 A	29-05-1987
CZ 281809 B	16-02-1994	CZ 9202103 A3	16-02-1994
		SK 210392 A3	07-12-1994
WO 9936746 A	22-07-1999	CZ 9800113 A3	13-10-1999
		AU 1867199 A	02-08-1999
		WO 9936746 A1	22-07-1999
		DE 69909432 D1	14-08-2003
		EP 1051595 A1	15-11-2000
		SK 12112000 A3	11-12-2000