



(11) **EP 1 717 182 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
30.05.2007 Bulletin 2007/22

(51) Int Cl.:
B65H 51/22 (2006.01) D01H 13/10 (2006.01)

(43) Date of publication A2:
02.11.2006 Bulletin 2006/44

(21) Application number: **06003997.1**

(22) Date of filing: **27.02.2006**

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

(72) Inventors:
• **Ueda, Kenichi**
Kusatsu-shi
Shiga (JP)
• **Yagi, Hiroyuki**
Izumitsu-shi
Osaka (JP)

(30) Priority: **28.04.2005 JP 2005132522**

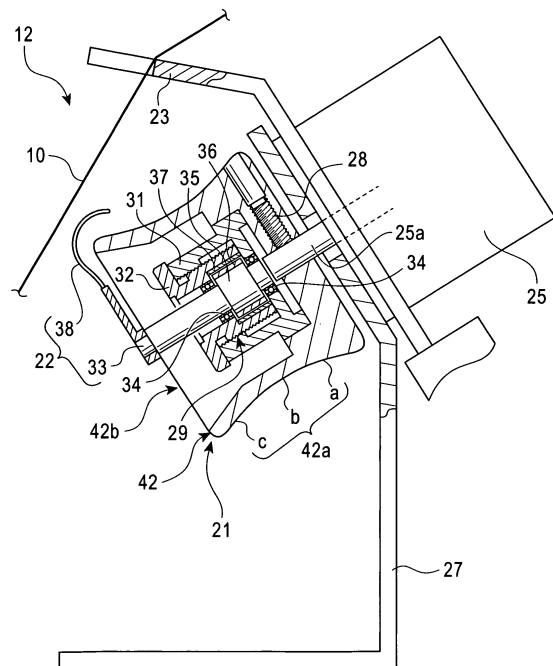
(74) Representative: **Liedl, Christine et al**
c/o Hansmann & Vogeser,
Albert-Rosshaupter-Strasse 65
81369 München (DE)

(71) Applicant: **MURATA KIKAI KABUSHIKI KAISHA**
Minami-ku
Kyoto-shi
Kyoto 601 (JP)

(54) **Yarn slack eliminating device in textile machine**

(57) The present invention provides a yarn slack eliminating device in a textile machine which allows a yarn hooking member to offer a stable rotational resistance to a slack eliminating roller to enable the formation of packages of a stable quality. A yarn slack eliminating device (12) includes a rotatively driven slack eliminating roller (21) and a yarn hooking member (22) attached concentrically and relatively rotatably to the slack eliminating roller (21). A flyer shaft (33) of the yarn hooking member (22) includes a columnar portion (35) the axis of which coincides with a rotation axis. A permanent magnet (36) is placed around an outer peripheral surface of the columnar portion (35). A hysteresis material (37) is placed opposite the permanent magnet (36) in a radial direction. A cylindrical adjustment bolt (32) in which the hysteresis material (37) is installed is screwed into a nut member (31) fixed to the slack eliminating roller (21). Rotating the adjustment bolt (32) enables a change in the opposite area of the permanent magnet (36) and hysteresis material (37).

FIG. 4



EP 1 717 182 A3



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 1 457 448 A (MURATA MACHINERY LTD [JP]) 15 September 2004 (2004-09-15)	1,5	INV. B65H51/22 D01H13/10
Y	* page 5, paragraph 35 - paragraph 39 * * figure 10 *	2-4	
Y	----- EP 1 462 405 A (SAURER ALLMA GMBH [DE]) 29 September 2004 (2004-09-29)	2-4	
A	* page 3, paragraph 13 * * figure 2 * * abstract *	1	
D,A	----- JP 2004 277946 A (MURATA MACHINERY LTD) 7 October 2004 (2004-10-07)	1,3,5	
A	----- GB 2 128 213 A (SCHUBERT & SALZER MASCHINEN) 26 April 1984 (1984-04-26)	1,3,5	
	* page 1, line 24 - line 49 * * page 3, line 107 - line 127 * * page 4, line 69 - line 106 * * page 5, line 19 - line 32 * * page 5, line 74 - line 86 * * page 6, line 33 - line 91 * * figure 1 *		TECHNICAL FIELDS SEARCHED (IPC)
	-----		B65H D01H D04B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 26 March 2007	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			

3
EPO FORM 1503 03.02 (P04C01)

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

EP 06 00 3997

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.

26-03-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1457448	A	15-09-2004	CN 1530478 A	22-09-2004
			JP 3700706 B2	28-09-2005
			JP 2004277031 A	07-10-2004

EP 1462405	A	29-09-2004	NONE	

JP 2004277946	A	07-10-2004	NONE	

GB 2128213	A	26-04-1984	CS 8306264 A2	16-09-1988
			DE 3238376 A1	26-04-1984
			EP 0108195 A1	16-05-1984
			HK 30187 A	24-04-1987
			IN 161751 A1	30-01-1988
			JP 1725573 C	19-01-1993
			JP 4013272 B	09-03-1992
			JP 59138563 A	09-08-1984
			MY 35987 A	31-12-1987
			SE 454876 B	06-06-1988
			SE 8305087 A	17-04-1984
