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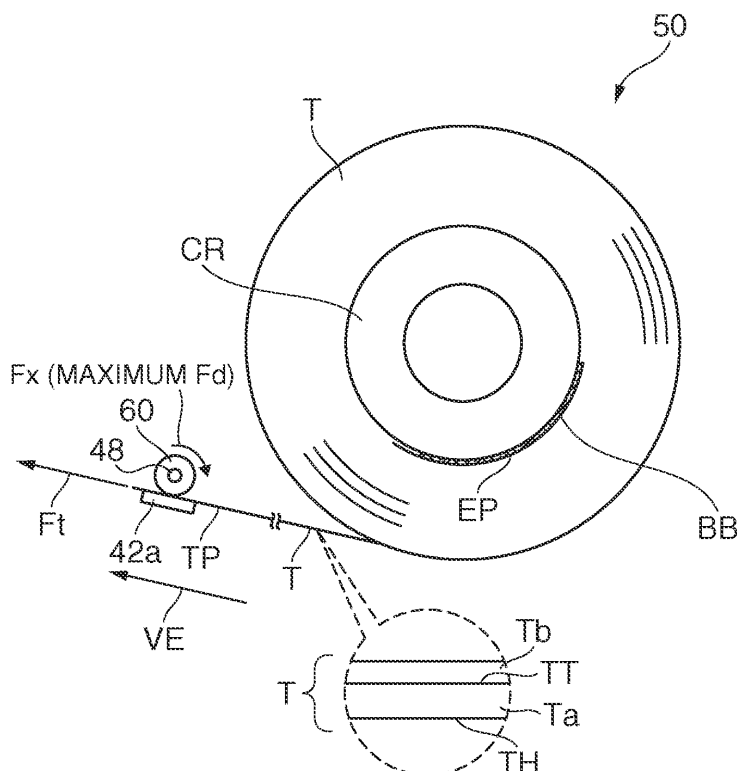
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(54) **Long medium for printer**

(57) A long medium for a printer 10 includes: a main body T wound around a core CR to which an end portion EP of the main body T is affixed; and a core stop tape portion BB which joins the core CR and the end portion

EP; wherein the bonding force Fr of the core stop tape portion BB is larger than the drawing force Ft for drawing the main body T wound around the core CR from the core CR.

**FIG. 3A**





## EUROPEAN SEARCH REPORT

Application Number  
EP 11 15 5752

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	US 5 433 393 A (NISHITANI NOBUHISA [JP]) 18 July 1995 (1995-07-18)	1,4-6	INV. B65H75/28
Y	* column 2, lines 21-45 * * column 3, lines 7-32; figures *	2,3,7,9	B41J33/00 B41J33/14 B41J35/36
Y	JP 1 075275 A (SEIKO EPSON CORP) 20 March 1989 (1989-03-20) * abstract; figures *	2,3,10, 11	B65H26/06 B41J15/02
Y	DE 43 33 740 A1 (KURZ LEONHARD FA [DE]) 6 April 1995 (1995-04-06) * column 3, lines 16-25, 58-62; figures *	7,8, 12-14	
X	EP 0 652 111 A2 (ESSELTE DYMO NV [BE]) 10 May 1995 (1995-05-10) * column 7, line 46 - columns 8-41; figures *	1,4-6	
X	WO 98/16391 A1 (ESSELTE NV [BE]; SIMS CHARLES ROBERT [GB]; DAY ROBERT CHARLES LEWIS [G]) 23 April 1998 (1998-04-23) * page 23, lines 13-30 *	1,4-6	TECHNICAL FIELDS SEARCHED (IPC)
X	JP 62 087382 A (FUJII XEROX CO LTD) 21 April 1987 (1987-04-21) * abstract; figures *	1,4-6	B65H B41J
Y	EP 0 692 387 A1 (BROTHER IND LTD [JP]) 17 January 1996 (1996-01-17) * column 12, lines 9-12 * * column 13, lines 31-39 * * column 19, lines 34-49; figures *	8-14	
A	US 2005/206715 A1 (SASAKI HIDEMI [JP] ET AL) 22 September 2005 (2005-09-22) * paragraphs [0022] - [0025]; figures *	1	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 6 February 2013	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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EPO FORM 1503 03-82 (P04C01)



## EUROPEAN SEARCH REPORT

Application Number  
EP 11 15 5752

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A,D	JP 6 099651 A (NEC CORP) 12 April 1994 (1994-04-12) * abstract; figures *	1	
A,D	JP 9 300764 A (BROTHER IND LTD) 25 November 1997 (1997-11-25) * abstract; figures *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
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>6 February 2013</b>	Examiner <b>Lemmen, René</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>			

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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number  
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-7

A long medium for a printer wherein the bonding force of a core stop tape portion is larger than the drawing force

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2. claims: 8-14

A long medium for a printer wherein the length of a core stop tape portion is equal to or larger than the product of the required detection time and feeding speed

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

EP 11 15 5752

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  
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06-02-2013

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5433393 A	18-07-1995	JP H01115560 U US 5433393 A	03-08-1989 18-07-1995
JP 1075275 A	20-03-1989	NONE	
DE 4333740 A1	06-04-1995	DE 4333740 A1 JP 3451138 B2 JP 7266668 A US 5605405 A	06-04-1995 29-09-2003 17-10-1995 25-02-1997
EP 0652111 A2	10-05-1995	AU 678060 B2 AU 7767094 A EP 0652111 A2 EP 0741044 A2 JP 7186505 A US 5608443 A	15-05-1997 18-05-1995 10-05-1995 06-11-1996 25-07-1995 04-03-1997
WO 9816391 A1	23-04-1998	AT 203460 T AU 4703597 A DE 69705855 D1 DE 69705855 T2 DK 934168 T3 EP 0934168 A1 ES 2163136 T3 PT 934168 E US 6380965 B1 WO 9816391 A1	15-08-2001 11-05-1998 30-08-2001 18-04-2002 12-11-2001 11-08-1999 16-01-2002 30-11-2001 30-04-2002 23-04-1998
JP 62087382 A	21-04-1987	NONE	
EP 0692387 A1	17-01-1996	NONE	
US 2005206715 A1	22-09-2005	JP 2005262491 A US 2005206715 A1	29-09-2005 22-09-2005
JP 6099651 A	12-04-1994	NONE	
JP 9300764 A	25-11-1997	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82