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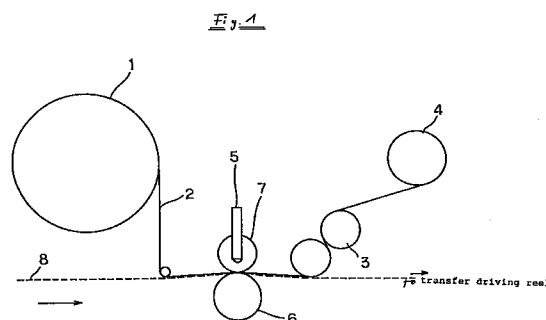
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(54) Letter printing method for a packaging machine

(57) There is provided a simply applicable printing method for a letter printing on a film in a packaging machine which makes sealing as it changes transfer velocities of a letter printing object. A transfer velocity of a packaging film (8) is detected by a rotary encoder (7). A carbon tape (2) unwound from a carbon tape roll (1) and the packaging film (8) are placed between a head supporting platen roller (6) and a line thermal head (5) and a necessary printing is made on the packaging film (8). An electric supply to the thermal head (5) is controlled synchronously with the transfer or moving velocity of the packaging film (8) detected by the rotary encoder (7).



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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.6)
Y	PATENT ABSTRACTS OF JAPAN vol. 95, no. 3, 28 April 1995 & JP 06 344614 A (MAKII ENG KK), 20 December 1994, * abstract; figures 1-3 *	1,2	B41J2/35 B41J33/36 B41J3/00
Y	DE 37 43 698 A (SIEMENS AG) 6 July 1989 * the whole document *	1,2	
Y	EP 0 575 773 A (ESSELTE METO INT GMBH) 29 December 1993 * the whole document *	1,2	
Y	US 3 813 677 A (SHIMOTSUMA W) 28 May 1974 * the whole document *	1,2	
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 426 (P-1784), 9 August 1994 & JP 06 131062 A (FUJITSU LTD), 13 May 1994, * abstract *	1,2	
A	US 5 355 152 A (PORTER LORRAINE T ET AL) 11 October 1994 * the whole document *	1,2	
A	PATENT ABSTRACTS OF JAPAN vol. 009, no. 139 (M-387), 14 June 1985 & JP 60 018362 A (FUJI XEROX KK), 30 January 1985, * abstract; figures 2-4 *	1,2	
A	US 4 679 053 A (KATSURAI JUNJI ET AL) 7 July 1987 * abstract *	1,2	
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 28 January 1997	Examiner Nielsen, M
<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 & : member of the same patent family, corresponding document</p>			

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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.6)
P,X	PATENT ABSTRACTS OF JAPAN vol. 95, no. 11, 26 December 1995 & JP 07 195724 A (CASIO COMPUT CO LTD), 1 August 1995, * abstract * -----	1,2	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
BERLIN		28 January 1997	Nielsen, M
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