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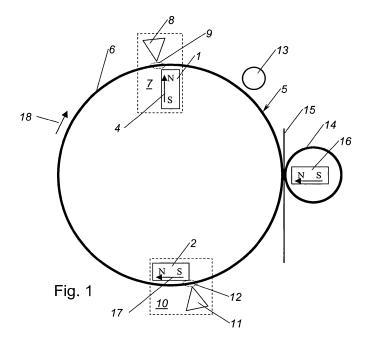
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(54) Printing apparatus using magnetization devices for writing and erasing of an image

(57) In a printing apparatus, comprising a layer (3) which can be magnetized at least in sections, a first magnetizing device (1) with a first north-south polarization direction (4) for introducing a first magnetization direction (25) into the magnetizable layer (3), and a second magnetization device (2) with a second north-south polarization plane (17) for introducing a second magnetization direction (26) into the magnetizable layer (3), with the first magnetization device (1) and the second magnetization device (2) being provided for the predeterminable

magnetization of a first position (22) of the magnetizable layer (3), with a displacement of the first position (22) to an effective region of the second magnetization device (2) being optionally provided, it is proposed for improving the print quality, especially the achievable resolution, that the first magnetization device (1) and the second magnetization device (2) are arranged in such a way that a first magnetization direction (25) can be produced at the first position (22) and/or a second magnetization direction (26) which is substantially normal to the first magnetization direction (25).



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EUROPEAN SEARCH REPORT

Application Number EP 05 29 2185

	DOCUMENTS CONSID					
Category	Citation of document with ir of relevant passa	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)		
Х	JP 09 197898 A (SHA 31 July 1997 (1997- * paragraph [0003];	1-15	INV. G03G15/16 G03G19/00			
A	US 4 449 130 A (MAG 15 May 1984 (1984-0 * column 3, lines 1 1,2 * * column 5, lines 5 * column 6, lines 2	5-15) -5,14-16,28-42; figures 3-61 *	1,14			
A	US 4 202 022 A (IMA AL) 6 May 1980 (198 * column 2, line 35 figures 1-3,12 *	 MURA NOBUTAKE [JP] ET	1,4,14, 15			
۹	JP 59 177564 A (FUJ 8 October 1984 (198 * abstract; figures	4-10-08)	1,14			
A	JS 4 459 598 A (OHTA WASABURO [JP]) 10 July 1984 (1984-07-10) * column 6, lines 31-66; figures 1,3,12 *		1,4,9, 14,15	TECHNICAL FIELDS SEARCHED (IPC)		
A	JP 2000 284516 A (D CHEMICALS) 13 Octob * abstract *	AINIPPON INK & er 2000 (2000-10-13)	1,4,5, 14,15			
	The present search report has I	·				
	Place of search The Hague	Date of completion of the search 10 May 2007	Var	Examiner 1 Ouytsel, Krist'		
CATEGORY OF CITED DOCUMENTS T: theory or principl E: earlier patent do After the filling dat Y: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category L: document cited in		underlying the i ument, but publi the application r other reasons	nvention shed on, or			

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EP 05 29 2185

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.

10-05-2007

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
JP 9197898	Α	31-07-1997	JP	3253842 B2	04-02-200
US 4449130	Α	15-05-1984	DE EP FR JP	3263850 D1 0082740 A2 2518771 A1 58111075 A	
US 4202022	Α	06-05-1980	NONE		
JP 59177564	Α	08-10-1984	JP JP	1623689 C 2046940 B	18-11-199 17-10-199
US 4459598	Α	10-07-1984	DE DE	3137872 A1 3153285 C2	
JP 2000284516	Α	13-10-2000	NONE		

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