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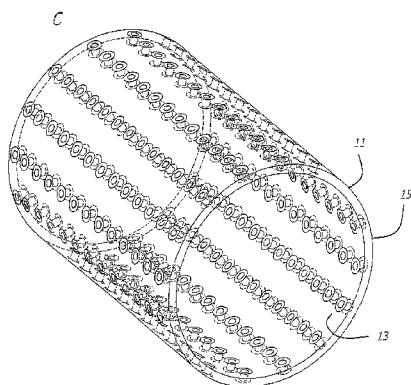
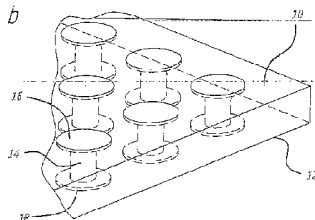
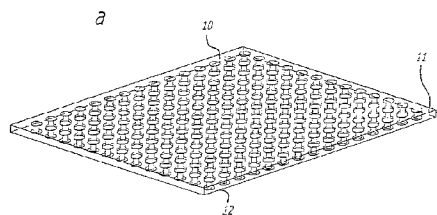
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**Declarations under Rule 4.17:**  
 — as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: DIGITAL SEMICONDUCTOR BASED PRINTING SYSTEM AND METHOD



(57) Abstract: A digital printing system uses individual memory cells within memory dies mounted on a substrate to attract or repel ink in order to produce an image. There is a dead space between adjacent individual memory cells and also between adjacent memory dies. By staggering the location of the memory dies on two or more substrates the dead spaces may be eliminated or minimized. In addition, staggering the location of the memory dies on the substrates allows for backup operations in the event that a primary memory cell fails and for resolution stepping of the printed image.



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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/14090

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: **G03G 13/00**( 2006.01);**B41J 2/39**( 2006.01),**2/415**( 2006.01)

USPC: 430/31;347/120,141

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 430/31; 347/120, 141

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,448,867 A (OHKUBO et al.) 15 May 1984 (15-05-1984), the entire reference.	1 - 6
A	US 4,748,464 A (PANNEKOEK et al) 31 May 1988 (31-05-1988), the entire reference.	1 - 6
A	US 5,157,423 A (ZUR) 20 October 1992 (20-10-1992), the entire reference.	1 - 6
A	US 6,100,909 A (HAAS et al.) 08 August 2000 (08-08-2000), the entire reference.	1 - 6

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:		
"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O"	document referring to an oral disclosure, use, exhibition or other means	
"P"	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

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