

Europäisches Patentamt European Patent Office Office européen des brevets

(11) **EP 1 013 433 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 23.08.2000 Bulletin 2000/34

(51) Int Cl.⁷: **B41J 2/16**

(43) Date of publication A2: **28.06.2000 Bulletin 2000/26**

(21) Application number: 99309503.3

(22) Date of filing: 29.11.1999

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 14.12.1998 US 211205

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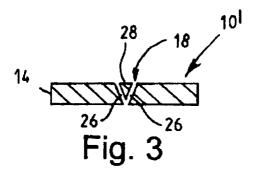
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(54) Multi-tabbed orifice plates

(57) An orifice plate for an ink jet printing system has improved fabrication. The orifice plates (10) are formed as part of a larger panel (12). They are mechanically attached to the larger panel and electrically connected to it by means a large number of uniformly space narrow

bridge members (18). These bridge members each converge to a narrow point at the edge of the orifice plate to cause the bridge to detach from the edge of the orifice plate when the orifice plate is to be removed from the larger panel at the time of orifice plate bonding.





EUROPEAN SEARCH REPORT

Application Number EP 99 30 9503

Category	Citation of document with indicat of relevant passages	ion, where appropri	ate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
X A	EP 0 514 706 A (HEWLET 25 November 1992 (1992 * column 4, line 50 - column 14 figures 14-65 *	-11-25)		l,2,4,7 3,5,8-10	B41J2/16
Х	US 5 847 725 A (CLELAN 8 December 1998 (1998- * column 2, line 23 - of figures 1-3 *	12-08)	İ	1-4,7	
Α	JP 10 244676 A (XEROX 0 14 September 1998 (1998 * paragraph '0001! - pa figures 1-5 * * abstract *	3-09-14)		.,4,7	
Α	US 4 347 522 A (BAHL ET 31 August 1982 (1982-08 * column 3, line 61 - cofigures 1-4 *	3-31)		. , 4 , 7	
A	EP 0 867 294 A (LEXMARK INC.) 30 September 1998 * column 6, line 52 - c figures 5-7 *	3 (1998-09-3	0)	.,4,7	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
	The present search report has been o	<u> </u>			
Place of search THE HAGUE		Date of completion		Rive	Examiner
X : parti Y : parti docu	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with another iment of the same category nological background	T : tr E : e a D : d	neory or principle user patent document returned the filing date ocument cited in the cument cited for coment cited for ci	nderlying the in nent, but publish ne application other reasons	vention

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

EP 99 30 9503

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29-06-2000

Patent document cited in search repo		Publication date	Patent family member(s)	Publication date
EP 514706	Α	25-11-1992	US 5194877 A JP 5193133 A	16-03-1993 03-08-1993
US 5847725	Α	08-12-1998	NONE	
JP 10244676	Α	14-09-1998	US 5900892 A	04-05-1999
US 4347522	Α	31-08-1982	NONE	
EP 867294	Α	30-09-1998	JP 10291319 A	04-11-1998

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