



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
07.05.2008 Bulletin 2008/19

(51) Int Cl.:
B41C 1/10 (2006.01) **B41M 1/06** (2006.01)
B41F 31/30 (2006.01) **B41F 31/36** (2006.01)

(43) Date of publication A2:
05.09.2007 Bulletin 2007/36

(21) Application number: **07004245.2**

(22) Date of filing: **01.03.2007**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated Extension States:
AL BA HR MK RS

(72) Inventor: **Naniwa, Mutsumi**
Haibara-gun
Shizuoka-ken (JP)

(74) Representative: **HOFFMANN EITLE**
Patent- und Rechtsanwälte
Arabellastrasse 4
81925 München (DE)

(30) Priority: **01.03.2006 JP 2006055424**

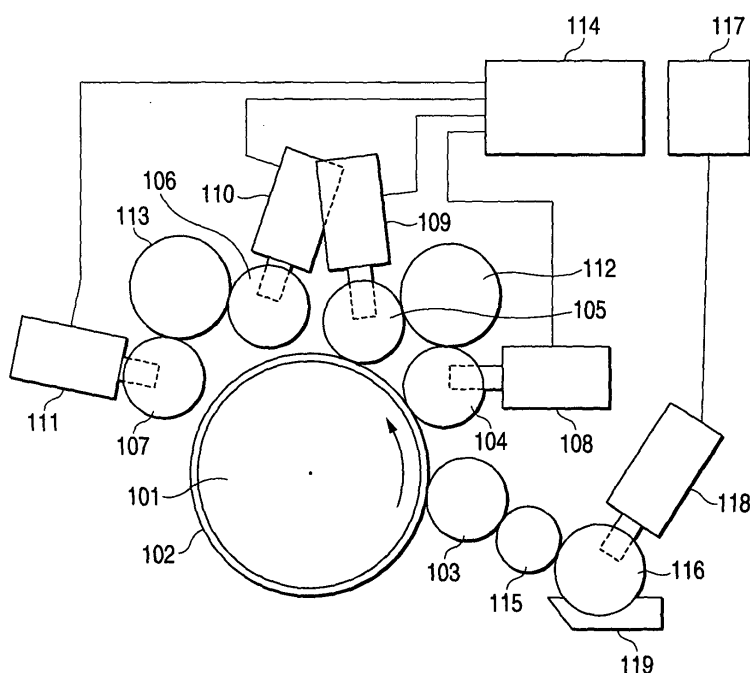
(71) Applicant: **FUJIFILM Corporation**
Minato-ku
Tokyo (JP)

(54) **On-press development and printing method and printing apparatus**

(57) A method of on-press developing and printing an on-press development type lithographic printing plate precursor by using a printing apparatus having a plurality

of inking rollers, the method comprising an inking step in which at least one of said plurality of inking rollers is not in contact with a plate surface.

FIG. 1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 07 00 4245

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	EP 0 771 646 A (DAINIPPON SCREEN MANUFACTURING K.K.) 7 May 1997 (1997-05-07) * column 5, line 55 - column 7, line 23 * * column 31, line 50 - column 32, line 9 * * claims 1-21; figure 2 *	1-6	INV. B41C1/10 B41M1/06 B41F31/30 B41F31/36
X	US 2002/185025 A1 (C.H. DUFOUR ET AL.) 12 December 2002 (2002-12-12) * claims 1-19; figure 1 * * paragraphs [0004] - [0013], [0026] - [0029] *	1-6	
A	GB 942 898 A (MASCHINENFABRIK AUGSBURG NÜRNBERG A.G.) 27 November 1963 (1963-11-27) * claim 1; figure 1 * * page 2, line 10 - line 71 *	1-6	
A	US 4 854 232 A (O.ODA) 8 August 1989 (1989-08-08) * claims 1-7; figure 1 * * column 1, line 36 - column 4, line 35 *	1-6	TECHNICAL FIELDS SEARCHED (IPC)
X	EP 1 557 263 A (KOMORI PRINTING MACH [JP]) 27 July 2005 (2005-07-27) * paragraphs [0012], [0022], [0066] - [0072] *	7	B41C B41M B41F
Y		8,9	
Y	EP 1 462 249 A (FUJI PHOTO FILM CO LTD [JP]) 29 September 2004 (2004-09-29) * paragraphs [0008], [0085], [0094], [0103], [0130], [0140] *	8,9	
X	US 5 909 708 A (BOLZA-SCHUENEMANN HANS-BERNHAR [DE]) 8 June 1999 (1999-06-08) * column 4, line 13 - line 52 *	7	
		-/--	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 27 February 2008	Examiner DIAZ-MAROTO, V
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	

4
EPO FORM 1503 03.82 (P04C01)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 07 00 4245

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 2003/164101 A1 (DAGHER JOSEPH G [US]) 4 September 2003 (2003-09-04) * paragraphs [0046] - [0048] * -----	7	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 27 February 2008	Examiner DIAZ-MAROTO, V
<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>			

4

EPO FORM 1503 03.82 (P04C01)



European Patent
Office

Application Number

EP 07 00 4245

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims 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 the first ten claims.

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).



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: 1-6

Method of on-press developing and printing with lithographic printing plate precursors, wherein the method comprises an inking step in which one of several inking rollers is not in contact with the plate surface.

2. claims: 7-9

Printing apparatus comprising (a) three or more inking rollers divided into two groups, and (b) an inking roller attachment/detachment control means.

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

EP 07 00 4245

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.

27-02-2008

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0771646 A	07-05-1997	US 5842414 A	01-12-1998
US 2002185025 A1	12-12-2002	AT 349323 T	15-01-2007
		CN 1390700 A	15-01-2003
		DE 10221330 A1	12-12-2002
		EP 1264686 A1	11-12-2002
		HK 1052483 A1	05-01-2007
		JP 2002370341 A	24-12-2002
GB 942898 A	27-11-1963	CH 390285 A	15-04-1965
		DE 1178087 B	17-09-1964
US 4854232 A	08-08-1989	CN 87107020 A	20-04-1988
		DE 3785635 D1	03-06-1993
		DE 3785635 T2	02-09-1993
		EP 0264787 A2	27-04-1988
EP 1557263 A	27-07-2005	CN 1644370 A	27-07-2005
		JP 2005205630 A	04-08-2005
		US 2005155503 A1	21-07-2005
EP 1462249 A	29-09-2004	AT 346746 T	15-12-2006
		DE 602004003413 T2	04-10-2007
		JP 2004284223 A	14-10-2004
		US 2004187720 A1	30-09-2004
US 5909708 A	08-06-1999	BR 9609766 A	26-01-1999
		CA 2227178 A1	06-02-1997
		CN 1195318 A	07-10-1998
		CZ 9800148 A3	11-11-1998
		WO 9703831 A1	06-02-1997
		EP 0839090 A1	06-05-1998
		JP 3042633 B2	15-05-2000
		JP 10510491 T	13-10-1998
US 2003164101 A1	04-09-2003	NONE	