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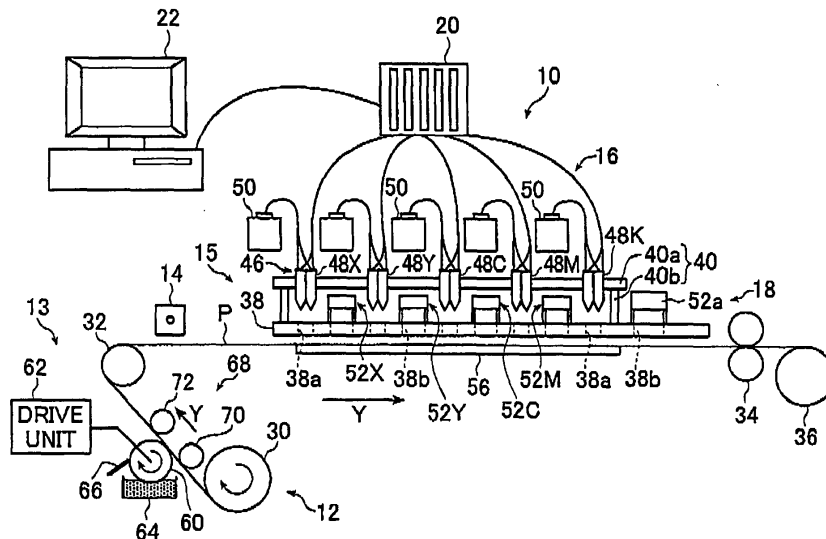
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(54) **Ink-jet recording device**

(57) The ink-jet recording device includes a transport unit for transporting a recording medium, an undercoating liquid applying unit for applying an undercoating liquid to the transported recording medium and an image forming unit that is disposed downstream of the undercoating liquid applying unit in a direction of travel by the recording medium, and has an ink-jet head which ejects an ink con-

taining at least a colorant to form an image on the recording medium to which the undercoating liquid has been applied. The undercoating liquid applying unit has a coating roll for applying the undercoating liquid to the recording medium, and a drive unit which rotates the coating roll in a direction opposite to the transporting direction of the recording medium.

**FIG. 1**



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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 (IPC)
X A	US 2007/013759 A1 (KADOMATSU TETSUZO [JP] ET AL) 18 January 2007 (2007-01-18) * page 1, paragraph 2 * * page 1, paragraph 12 - paragraph 13 * * page 2, paragraph 28 - page 3, paragraph 30 * * page 12, paragraph 154 - paragraph 155 * * page 13, paragraph 166 * -----	1-5  2,6,8	INV. B41J11/00
P,X	EP 1 870 247 A (FUJIFILM CORP [JP]) 26 December 2007 (2007-12-26) * the whole document * -----	1,5, 10-12	
D,Y	JP 2004 042525 A (KONICA MINOLTA HOLDINGS INC) 12 February 2004 (2004-02-12) * abstract * -----	1,3-5, 9-12	
Y	JP 2003 010750 A (TOPPAN PRINTING CO LTD) 14 January 2003 (2003-01-14) * abstract * -----	1,3-5, 9-12	
			TECHNICAL FIELDS SEARCHED (IPC)
			B41J B41M
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-The present search report has been drawn up for all claims-			
Place of search		Date of completion of the search	Examiner
The Hague		27 March 2008	Whelan, Natalie
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	

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EPO FORM 1503 03.82 (P/04C01)

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing claims for which payment was due.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.

**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:  
see annex
- 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: 1-6,8-12 (as dependent on claim 1-2 )

ink-jet recording device which delivers a regular coating which is not uneven, see page 35, present application.

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2. claims: 7,8-12 (as dependent on claim 7)

ink-jet recording device which enables the undercoating liquid applied to the recording medium to be semi-cured before permeating it, thus preventing the undercoating liquid from permeating the recording medium, see page 50 .

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

EP 08 00 1909

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  
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27-03-2008

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82