

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 February 2008 (28.02.2008)

PCT

(10) International Publication Number
WO 2008/023812 A1

(51) International Patent Classification:

C09D 11/00 (2006.01) **B41M 5/50** (2006.01)
B41J 2/01 (2006.01) **B41M 5/52** (2006.01)
B41M 5/00 (2006.01)

(74) Agent: **HIROTA, Koichi**; HIROTA, NAGARE & ASSO-
CIATES, 4th Floor, Shinjuku TR Bldg., 2-2-13, Yoyogi,
Shibuya-ku, Tokyo 1510053 (JP).

(21) International Application Number:

PCT/JP2007/066507

(22) International Filing Date: 20 August 2007 (20.08.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2006-225431 22 August 2006 (22.08.2006) JP

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG,
ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL,
IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR,
LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX,
MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): **Ricoh
Company, Ltd.** [JP/JP]; 3-6, Nakamagome 1-chome,
Ohta-ku, Tokyo, 1438555 (JP).

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL,
PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

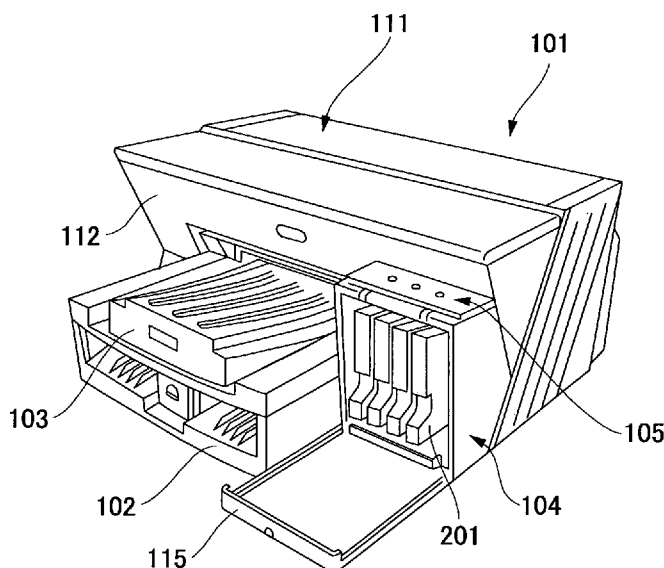
(72) Inventor; and

(75) Inventor/Applicant (for US only): **GOTO, Hiroshi**
[JP/JP]; Pastoral Garden Sanbankan 101, 265-1, Toda,
Atsugi-shi, Kanagawa, 2430023 (JP).

Published:

— with international search report

(54) Title: RECORDING INK, INK/MEDIA SET, INK CARTRIDGE, INKJET RECORDING METHOD AND INKJET
RECORDING APPARATUS



(57) Abstract: To provide a recording ink which contains at least a water-dispersible colorant, a water-dispersible resin, a wetting agent, a surfactant and water, wherein the content of the wetting agent in the recording ink is in the range of from 20 % by mass to 35 % by mass, the total solid content of the water-dispersible colorant and the water-dispersible resin in the recording ink is in the range of from 12 % by mass to 40 % by mass, the water-dispersible resin contains fluorine resin particulates, and the ratio A:B, where A is the solid content of the water-dispersible resin in the recording ink and B is the solid content of a pigment contained in the water-dispersible colorant in the recording ink, is in the range of 0.5 to 8.

WO 2008/023812 A1