

Base : FAMPAT

SEARCH STRATEGY

SS Results

9	1174	7 AND 8
8	27092638	(DEPOSIT+ OR DISPOS+ OR PUT+)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
7	1291	5 AND 6
6	536935	((ACID)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (INK)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX)
5	1334	3 AND 4
4	1638041	(ALKALINE OR (ALKALINE 1D EARTH))/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
3	5777	1 AND 2
2	1160725	(COAT+ 1D LAYER)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX
1	18338	((INKJET 11D PRINTED)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (SUBSTRATE OR SUSTRATE)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX)

30 Documents

Publication numbers	Title	Current assignees
WO200749782 A1	Recording ink, recording ink set, records, ink cartridge, recording method, and inkjet recording apparatus	RICOH
WO200746542 A1	Ink-media set, ink jet recording method and ink jet recording apparatus	RICOH
WO200418211 A1	Inkjet recording apparatus and inkjet recording method	RICOH
CA2356809 A1	Ink set, bleed-alleviating method, and method for improving fixability of black image	CANON
WO200982000 A1	Ink-jet recording ink, ink-jet recording ink set, ink-jet recording ink media set, ink cartridge, ink-jet recording method and ink-jet recording apparatus	RICOH
CA2866204 A1	Ink film constructions	LANDA
EP1264866 A2	Colorant for ink-jet printing ink, ink-jet printing ink, aqueous pigment dispersion containing the colorant, and organic and inorganic composite particles	TODA KOGYO
WO200969721 A1	Ink-jet recording ink, ink-jet recording ink set, ink-jet recording ink media set, ink cartridge, ink-jet recording method and ink-jet recording apparatus	RICOH
WO200835797 A1	Ink jet recording method	RICOH
WO200935158 A1	Recording ink, ink media set, ink cartridge, ink recorded matter, inkjet recording apparatus, and inkjet recording method	RICOH
EP2009070 A1	Ink-jet ink and method of producing the same, color filter and method of producing the same, display device, and method of forming functional film	FUJIFILM
WO200823812 A1	Recording ink, ink/media set, ink cartridge, inkjet recording method and inkjet recording apparatus	RICOH
WO200835725 A1	Recording ink, ink media set, ink cartridge, ink recorded matter, inkjet recording apparatus, and inkjet recording method	RICOH
WO200023440 A1	Novel anthrapyridone compounds, water-based magenta ink composition, and method of ink-jet printing	NIPPON KAYAKU
WO200604203 A1	Ink, ink jet recording method, recording unit, ink cartridge, and ink jet recording apparatus	CANON
WO200542652 A1	Black ink and ink set for inkjet recording	FUJIFILM
WO201100491 A2	Printing ink such as an ink jet ink comprising nacreous pigments based on fine and thin substrates	ECKART
WO200420207 A1	Ink-jet print system	MITSUBISHI PAPER MILLS
EP3067215 A1	Inkjet printing method	OMYA

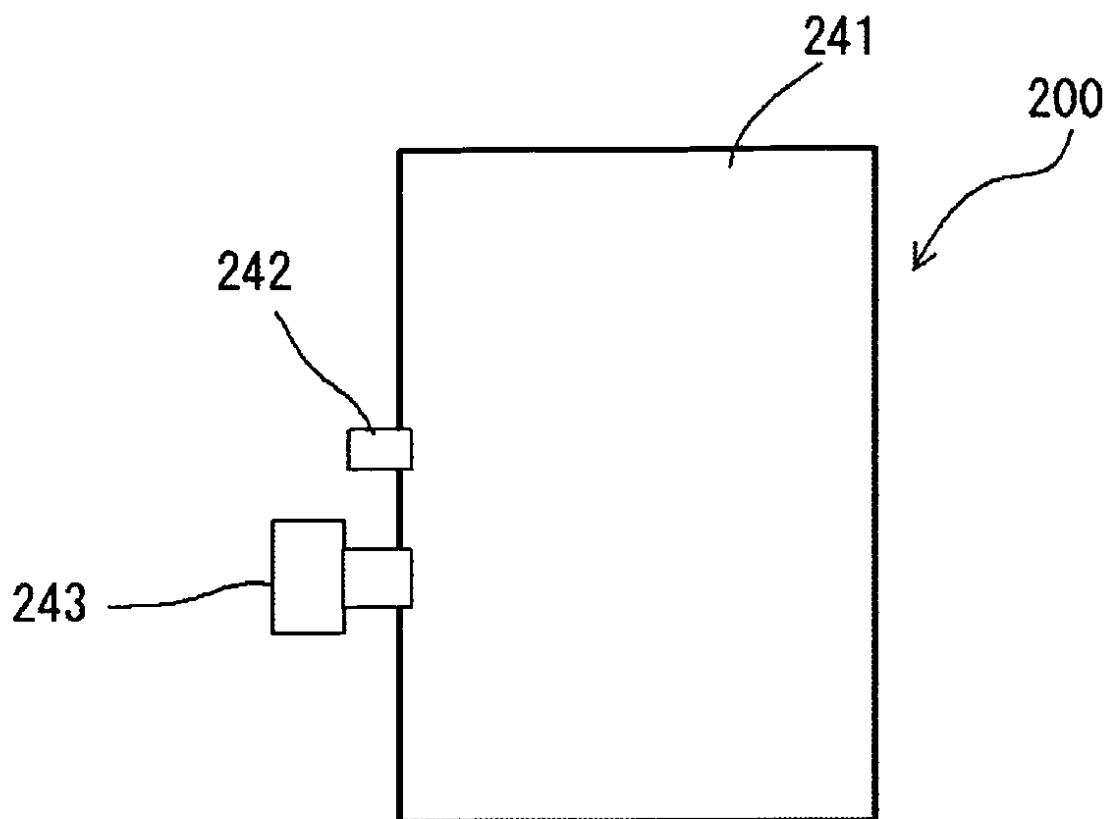
Publication numbers	Title	Current assignees
WO201027078 A1	Inkjet ink, ink cartridge, inkjet recording apparatus, inkjet recording method and image forming apparatus	RICOH
GB200221892 D0	Process and ink for making electronic devices	FUJIFILM IMAGING COLORANTS
FR2913146 A1	Substrate bearing a discontinuous electrode, organic electroluminescent device including same and manufacture thereof	SAINT GOBAIN GLASS
WO2009154185 A1	Ink composition, ink composition for inkjet recording, ink set, ink cartridge, inkjet recording method, and recorded matter	FUJIFILM
WO201165095 A1	Ink-jet image forming method and ink-jet ink set	KONICA MINOLTA
JP5901860 B1	Durable and flexible ink composition for high-quality/high-definition screen printing, printed product obtained by screen printing said ink composition, and manufacturing method for said printed product	TEIKOKU PRINTING INKS MANUFACTURING
GB200221893 D0	Printing process and solder mask ink composition	FUJIFILM IMAGING COLORANTS
WO201388907 A1	Inkjet recording ink, ink cartridge, method for manufacturing inkjet recording ink, method for manufacturing ink cartridge, and recording method	SEIKO I INFOTECH
WO2008114884 A1	Ink-jet recording method	RICOH
US20080178766 A1	Ink-jet ink formulations containing imidazole	HEWLETT PACKARD DEVELOPMENT
WO2014129322 A1	Sublimating dye ink for ink jets and dyeing method	KIWA CHEMICAL INDUSTRY

Family 1/30 - FAMPAT - ©Questel

Title

(EP1940979)

Recording ink, recording ink set, records, ink cartridge, recording method, and inkjet recording apparatus

Images**Publication data including kind & date**

WO2007049782	A1	2007-05-03	WO200749782
JP2007146135	A	2007-06-14	JP2007146135
KR20080063856	A	2008-07-07	KR20080063856
EP1940979	A1	2008-07-09	EP1940979
CN101321835	A	2008-12-10	CN101321835
US20090263632	A1	2009-10-22	US20090263632
KR101031802	B1	2011-04-29	KR101031802
EP1940979	A4	2011-06-01	EP1940979
CN101321835	B	2011-10-12	CN101321835B
US8586647	B2	2013-11-19	US8586647
JP5510696	B2	2014-06-04	JP5510696
EP1940979	B1	2016-06-08	EP1940979

**Abstract**

(EP1940979)

The present invention provides a recording ink set containing a black ink, a cyan ink, a magenta ink, and a yellow ink, each of which contains water, a water-insoluble color material, a water-soluble organic solvent, and a surfactant, wherein the black ink and at least one of the inks other than the black ink respectively contain a different water-soluble organic solvent; and the surface tension of the water-soluble organic solvent(s) used only for the inks other than the black ink is higher than that of the water-soluble organic solvent used only for the black ink; and the present invention also provides a recording

method using the recording ink set.

Inventors

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OHSHIMA TOHRU

Latest standardized assignees - inventors removed

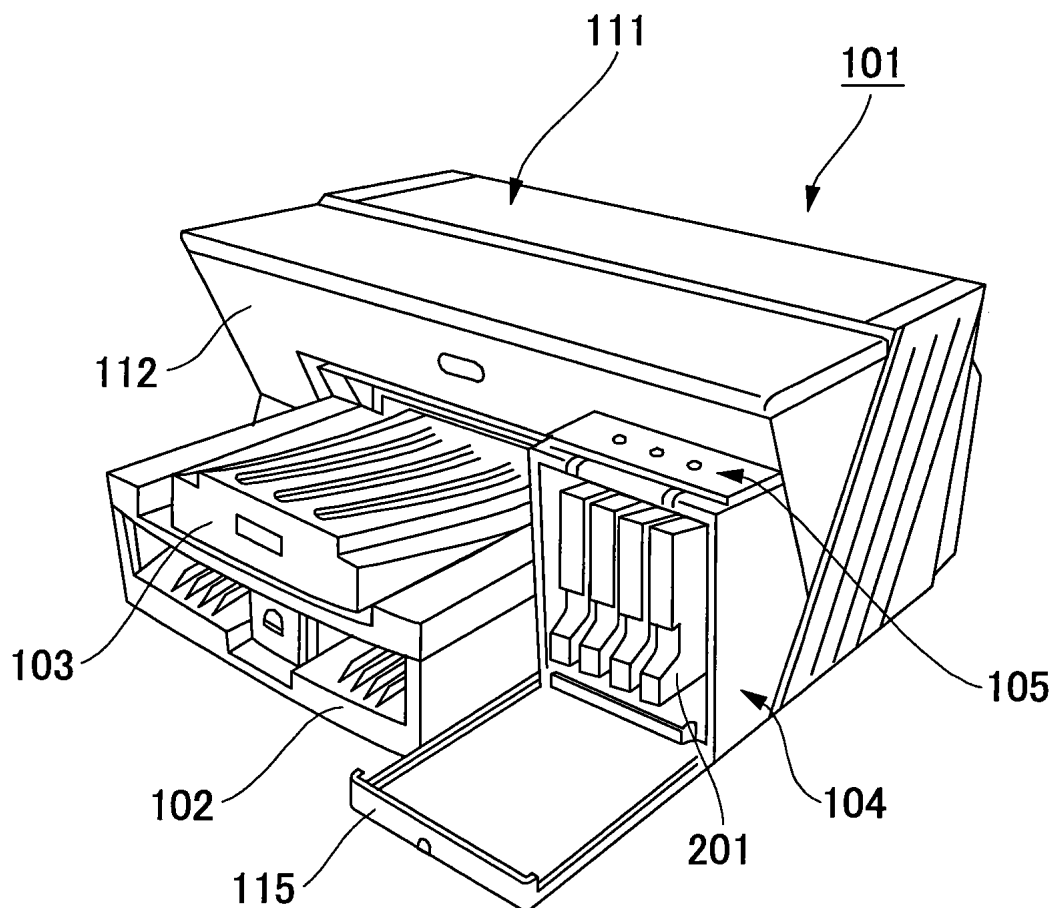
RICOH

Family 2/30 - FAMPAT - ©Questel

Title

(EP1937485)

Ink-media set, ink jet recording method and ink jet recording apparatus

Images**Publication data including kind & date**

WO2007046542	A1	2007-04-26	WO200746542
JP2007216664	A	2007-08-30	JP2007216664
EP1937485	A1	2008-07-02	EP1937485
KR20080063849	A	2008-07-07	KR20080063849
CN101316718	A	2008-12-03	CN101316718
US20090114121	A1	2009-05-07	US20090114121



US20100215855	A1	2010-08-26	US20100215855
KR101003816	B1	2010-12-28	KR101003816
EP1937485	A4	2011-03-23	EP1937485
US8337607	B2	2012-12-25	US8337607
EP1937485	B1	2013-01-23	EP1937485
CN101316718	B	2014-01-01	CN101316718B

**Abstract**

(EP1937485)

The present invention provides an ink-media set, record **printed** by use of the ink-media set, an **inkjet printing** method, and an **inkjet printing** apparatus which includes ink that has at least water, dye, and humectant and surface tension thereof is 20 to 35 mN/m at 25, a support, and a recording medium having the support and at least one surface thereof has a **coating layer** wherein transfer rate of the ink to the recording medium measured by a dynamic scanning absorptometer in 100 ms of contact time is 4 to 15 ml/m² and transfer rate of the ink to the recording medium measured by a dynamic scanning absorptometer in 400 ms of contact time is 7 to 20 ml/m².

Inventors

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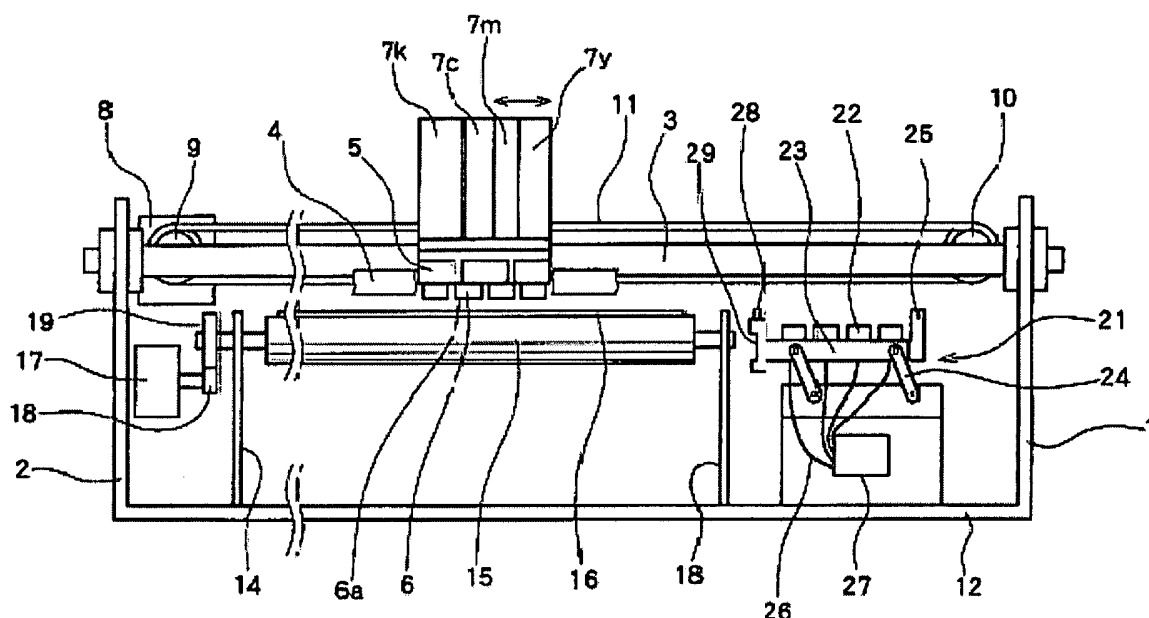
Latest standardized assignees - inventors removed

RICOH

Family 3/30 - FAMPAT - ©Questel

Title

(EP2364850)

inkjet recording apparatus and **inkjet** recording method**Images****Publication data including kind & date**

WO2004018211	A1	2004-03-04	WO200418211
JP2004082709	A	2004-03-18	JP2004082709
KR20050019781	A	2005-03-03	KR20050019781
EP1524116	A1	2005-04-20	EP1524116
US20050128272	A1	2005-06-16	US20050128272



CN1662378	A	2005-08-31	CN1662378				
KR20070039619	A	2007-04-12	KR20070039619				
KR100740520	B1	2007-07-20	KR100740520				
KR100798722	B1	2008-01-28	KR100798722				
EP1524116	A4	2009-01-07	EP1524116				
CN100448671	C	2009-01-07	CN100448671C				
US7490930	B2	2009-02-17	US7490930				
US20090135218	A1	2009-05-28	US20090135218				
EP2364850	A2	2011-09-14	EP2364850				
EP2364850	A3	2011-12-14	EP2364850				
US8083342	B2	2011-12-27	US8083342				
US20120044293	A1	2012-02-23	US20120044293				
US8192013	B2	2012-06-05	US8192013				
EP1524116	B1	2012-10-10	EP1524116				
EP2364850	B1	2015-01-07	EP2364850				

Abstract

(EP2364850)

An ink-jet recording apparatus and method for recording a high-definition image with high image rigidity and with proper **printing** density on various types of recording medium. The ink-jet recording apparatus has a recording controlling unit that changes the type of inks to eject by using an ink set. The ink set includes a black ink containing a self-dispersion pigment and color inks composed of at least cyan, magenta and yellow inks and containing a polymer emulsion. The polymer emulsion is such that a water-insoluble or water-slightly-soluble colorant is dispersed in a polymer particle dispersion. The type of inks is changed, considering the properties of the black ink and the color inks. In the method, a black color area in the color image is recorded by using the black ink ejecting portion and the color ink ejecting portion in combination.

Inventors

MOROHOSHI NAOYA

GOTOH AKIHIKO

Latest standardized assignees - inventors removed

RICOH

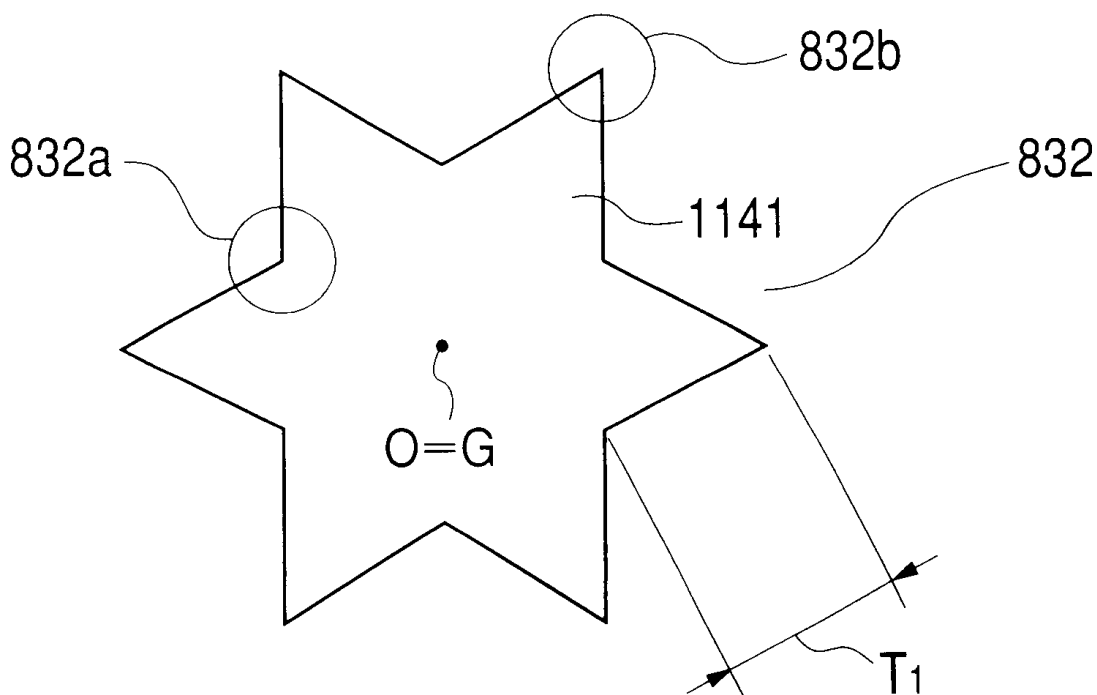
Family 4/30 - FAMPAT - ©Questel

Title

(EP1188804)

Ink set, bleed-alleviating method, and method for improving fixability of black image

Images



Publication data including kind & date

CA2356809	A1	2002-03-04	CA2356809
KR20020018976	A	2002-03-09	KR20020018976
EP1188804	A1	2002-03-20	EP1188804
US20020093557	A1	2002-07-18	US20020093557
CN1366007	A	2002-08-28	CN1366007
JP2002309140	A	2002-10-23	JP2002309140
US6706104	B2	2004-03-16	US6706104
KR100467001	B1	2005-01-24	KR100467001
CA2356809	C	2005-11-22	CA2356809
EP1188804	B1	2006-01-25	EP1188804
AT316553	T	2006-02-15	ATE316553
DE60116820	D1	2006-04-13	DE60116820
CN1258571	C	2006-06-07	CN1258571C
ES2256130	T3	2006-07-16	ES2256130
DE60116820	T2	2006-08-31	DE60116820



Abstract

(EP1188804)

An ink set which comprises a black ink containing an aqueous medium and a pigment dispersed in the aqueous medium by an action of an ionic group, and at least two color inks each containing a coloring material and an aqueous medium, wherein (i) respective images formed with the respective color inks have the same DELTA E or have the difference in DELTA E that is 10 or less in a CIELAB color space display system in a fading test under conditions that cause fading corresponding to pseudo-indoor sunlight fading through a window for 3 years or more, and (ii) at least one of the color inks contains at least one of a coloring material and an additive that destabilize dispersion stability of the pigment in the black ink. The ink set can provide a high quality multicolor image keeping color balance after long preservation and showing less bleeding between black and color regions.

Inventors

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Latest standardized assignees - inventors removed

CANON

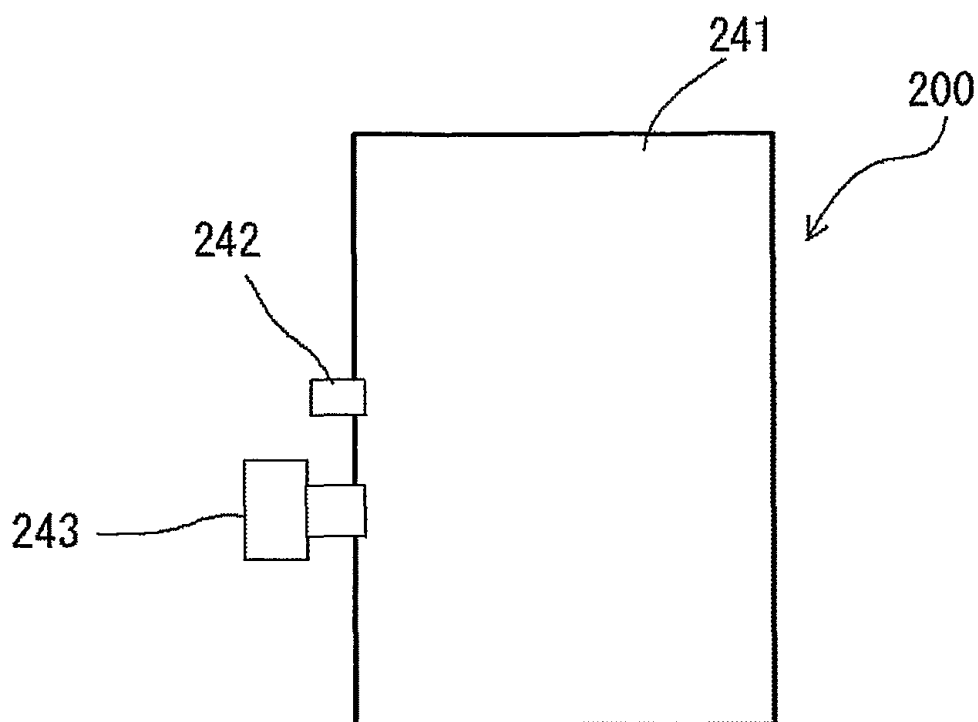
Family 5/30 - FAMPAT - ©Questel

Title

(EP2225332)

Ink-jet recording ink, ink-jet recording ink set, ink-jet recording ink media set, ink cartridge, ink-jet recording method and ink-jet recording apparatus

Images



Publication data including kind & date

WO2009082000	A1	2009-07-02	WO200982000
JP2009155425	A	2009-07-16	JP2009155425
EP2225332	A1	2010-09-08	EP2225332
IN2309/KOLNP/2010	A	2010-10-01	IN2010KN02309
US20100279035	A1	2010-11-04	US20100279035
CN101910329	A	2010-12-08	CN101910329



EP2225332	A4	2011-11-30	EP2225332				
EP2225332	B1	2013-02-13	EP2225332				
US8444755	B2	2013-05-21	US8444755				
CN101910329	B	2013-08-28	CN101910329B				
JP5403310	B2	2014-01-29	JP5403310				
IN271923	B	2016-03-11	IN-271923				

Abstract

(EP2225332)

An ink-jet recording ink including water, a water-soluble organic solvent, a pigment as a colorant (B), and at least one fluorochemical surfactant selected from compounds represented by Structural Formula (1) below, Structural Formula (1) where R1 denotes any one of a hydrogen atom, an alkyl group and a perfluoroalkyl group, R2 denotes any one of a hydrogen atom, an alkyl group and a fluorine-containing group, Rf denotes a fluorine-containing group, and m and n each denote an integer of 1 or greater.

Inventors

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Latest standardized assignees - inventors removed

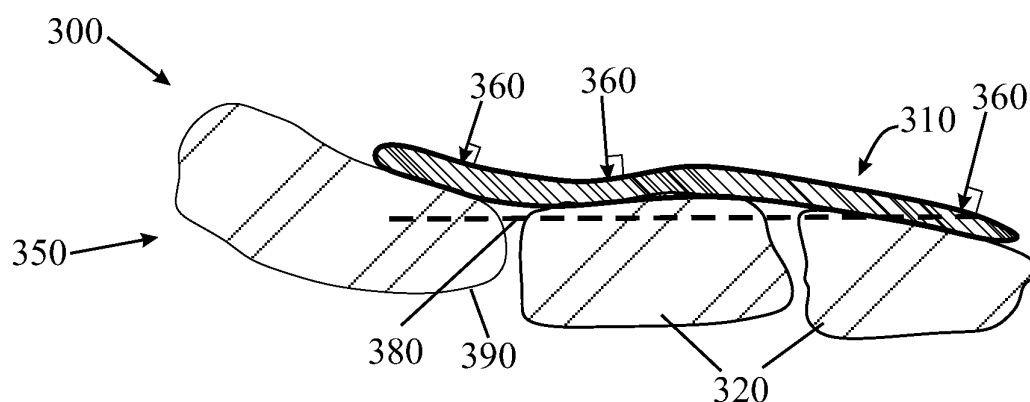
RICOH

Family 6/30 - FAMPAT - ©Questel

Title

(EP2823006)

Ink film constructions

Images**Publication data including kind & date**

CA2866204	A1	2013-09-12	CA2866204				
WO2013132343	A1	2013-09-12	WO2013132343				
WO2013132343	A9	2013-10-31	WO2013132343				
AU2013229140	A1	2014-09-11	AU2013229140				
MX2014010682	A	2014-10-17	MX2014010682				
BR112014021758	A1	2014-10-21	BR112014021758				
IL234515	A	2014-10-30	IL-234515				
KR20140131989	A	2014-11-14	KR20140131989				

CN104220539	A	2014-12-17	CN104220539				
EP2823006	A1	2015-01-14	EP2823006				
US20150024180	A1	2015-01-22	US20150024180				
JP2015511984	A	2015-04-23	JP2015511984				
HK1204639	A1	2015-11-27	HK1204639				
EP2823006	A4	2015-12-23	EP2823006				
US9327496	B2	2016-05-03	US9327496				
CN104220539	B	2016-06-01	CN104220539B				
IN6556/CHENP/2014	A	2016-07-01	IN2014CN06556				
US20160297190	A1	2016-10-13	US20160297190				
CN106084986	A	2016-11-09	CN106084986				
AU2013229140	B2	2017-02-02	AU2013229140				
AU2017200978	A1	2017-03-02	AU2017200978				
BR112014021758	A2	2017-06-20	BR112014021758				
BR112014021758	A8	2017-07-18	BR112014021758				
JP6185938	B2	2017-08-23	JP6185938				
JP2018008520	A	2018-01-18	JP2018008520				
AU2017200978	B2	2018-04-05	AU2017200978				
AU2018202043	A1	2018-04-19	AU2018202043				
IL260042	A	2018-07-31	IL-260042				
IL234515	B	2018-07-31	IL-234515				
DE202013012736	U1	2018-12-20	DE202013012736				

Abstract

(EP2823006)

An ink film construction including: (a) a first **printing substrate** selected from the group consisting of an uncoated fibrous **printing substrate**, a commodity **coated** fibrous **printing substrate**, and a plastic **printing substrate**; and (b) an ink dot set contained within a square geometric projection projecting on the first **printing substrate**, the ink dot set containing at least 10 distinct ink dots, fixedly adhered to a surface of the first **printing substrate**, all the ink dots within the square geometric projection being counted as individual members of the set, each of the ink dots containing at least one colorant dispersed in an organic polymeric resin, each of the dots having an average thickness of less than 2,000nm, and a diameter of 5 to 300 micrometers; each ink dot of the ink dots having a generally convex shape in which a deviation from convexity, (DCdot), is defined by: $DCdot = 1 - AA/CSA$, AA being a calculated projected area of the dot, the area disposed generally parallel to the first fibrous **printing substrate**; and CSA being a surface area of a convex shape that minimally bounds a contour of the projected area; wherein a mean deviation from convexity (DCdot mean) of the ink dot set is at most 0.05.

Inventors

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Latest standardized assignees - inventors removed

LANDA

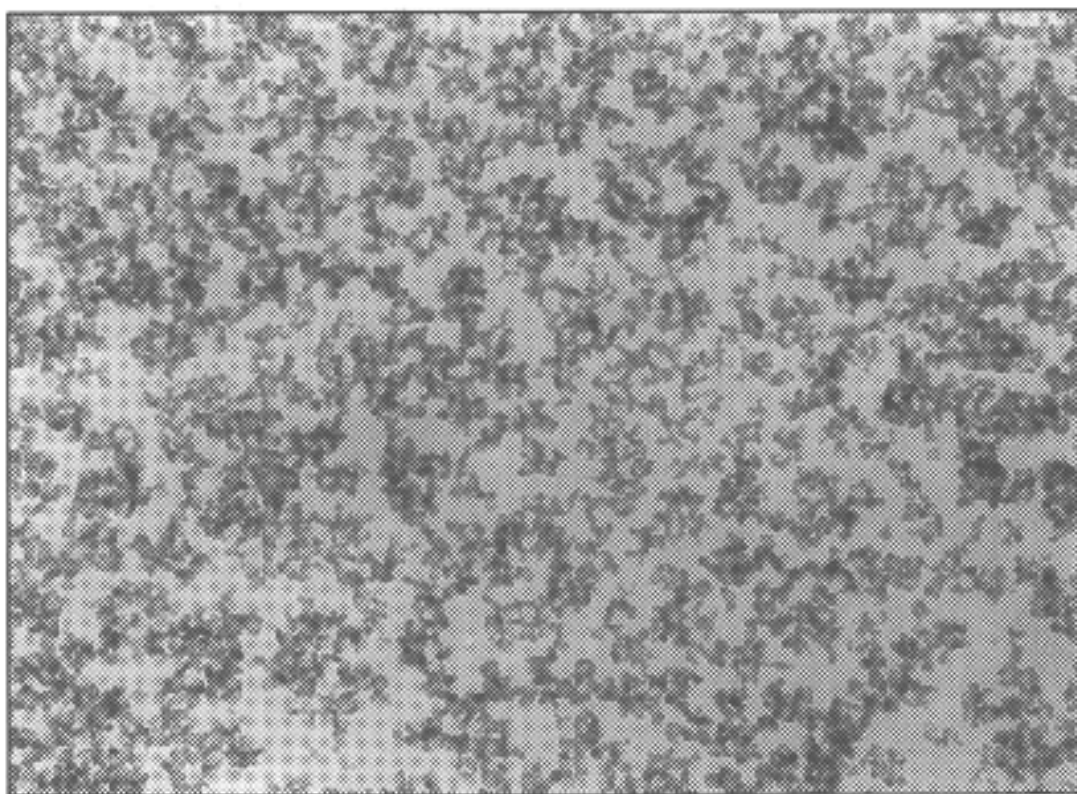
Family 7/30 - FAMPAT - ©Questel

Title

(EP1264866)

Colorant for ink-jet **printing** ink, ink-jet **printing** ink, aqueous pigment dispersion containing the colorant, and organic and inorganic composite particles

Images



0.1 μm

Publication data including kind & date

EP1264866	A2	2002-12-11	EP1264866
KR20020092820	A	2002-12-12	KR20020092820
CN1389527	A	2003-01-08	CN1389527
JP2003055591	A	2003-02-26	JP2003055591
US20030056693	A1	2003-03-27	US20030056693
US6623557	B2	2003-09-23	US6623557
EP1264866	A3	2005-01-19	EP1264866
EP1264866	B1	2006-08-02	EP1264866
DE60213514	D1	2006-09-14	DE60213514
CN1293154	C	2007-01-03	CN1293154C
DE60213514	T2	2007-10-25	DE60213514
JP4540921	B2	2010-09-08	JP4540921



Abstract

(EP1264866)

A colorant for ink-jet **printing** ink, having an average particle diameter of 0.001 to 0.15 μm , and comprising: extender pigments as core particles; a gluing agent **coating layer** formed on at least a part of the surface of said core particle; and an organic pigment **coat** uniformly formed on at least a part of said gluing agent **coating layer**. The colorant for ink-jet **printing** ink exhibits not only a high tinting strength and a clear hue, but also excellent dispersibility and light resistance in spite of fine particles.

Inventors

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Latest standardized assignees - inventors removed

Inventors

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OHSHIMA TOHRU

GOTOH AKIHIKO

NAGAI KIYOFUMI

Latest standardized assignees - inventors removed

RICOH

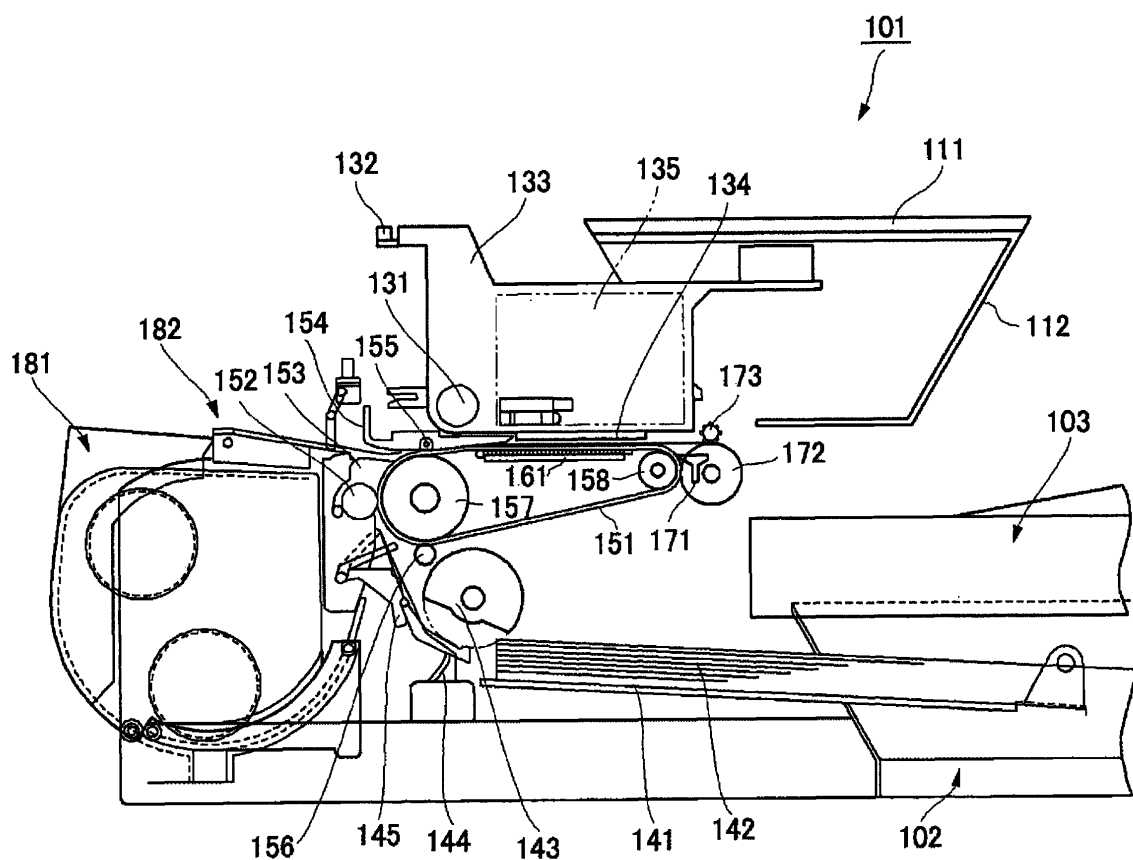
Family 9/30 - FAMPAT - ©Questel

Title

(EP2064067)

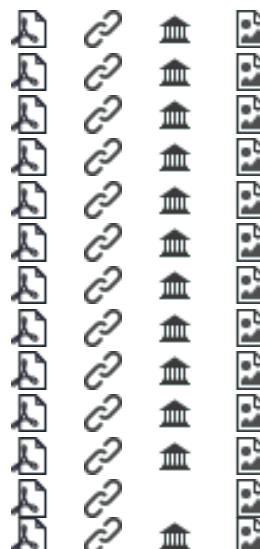
Ink jet recording method

Images



Publication data including kind & date

WO2008035797	A1	2008-03-27	WO200835797
JP2008100511	A	2008-05-01	JP2008100511
KR20080085854	A	2008-09-24	KR20080085854
IN2189/KOLNP/2008	A	2009-01-16	IN2008KN02189
CN101378912	A	2009-03-04	CN101378912
EP2064067	A1	2009-06-03	EP2064067
EP2064067	A4	2009-09-09	EP2064067
US20100265292	A1	2010-10-21	US20100265292
CN101378912	B	2010-12-08	CN101378912B
US7938527	B2	2011-05-10	US7938527
EP2064067	B1	2011-06-08	EP2064067
VN0009571	B	2011-09-27	VN---9571B



KR101070713	B1	2011-10-07	KR101070713
JP5305217	B2	2013-10-02	JP5305217
IN281055	B	2017-03-10	IN-281055

**Abstract**

(EP2064067)

To provide an ink jet recording method including: performing image recording on a recording medium to obtain an ink adhesion quantity of 15 g/m² or less of an ink containing at least a colorant, the recording medium having at least one coating layer on at least one surface of a substrate including cellulose pulp; and dry-to-touch drying the recorded image and bringing a heat source into direct contact with the recording medium for image fixing, wherein the recording medium is formed such that a transfer quantity of pure water into the recording medium in a contact interval of 100 ms that is measured with a dynamic scanning liquid absorptometer is 1 mL/m² or more to 30 mL/m² or less and a transfer quantity of pure water into the recording medium in a contact interval of 400 ms is 2 mL/m² or more to 35 mL/m² or less.

Inventors

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HIRANO MASANORI
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Latest standardized assignees - inventors removed

RICOH

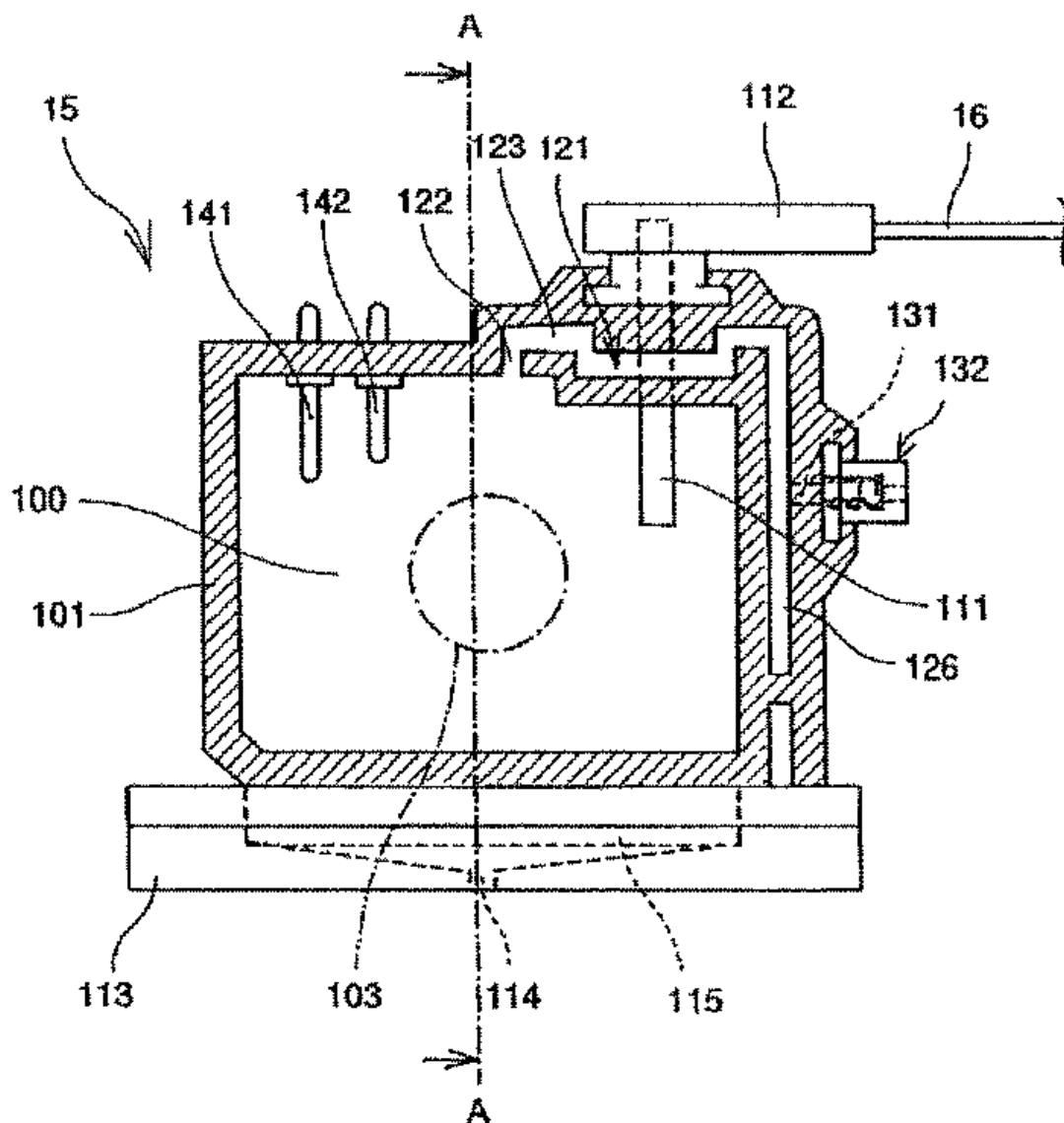
Family 10/30 - FAMPAT - ©Questel

Title

(EP2178992)

Recording ink, ink media set, ink cartridge, ink recorded matter, inkjet recording apparatus, and inkjet recording method

Images



Publication data including kind & date

WO2009035158	A1	2009-03-19	WO200935158
JP2009067909	A	2009-04-02	JP2009067909
EP2178992	A1	2010-04-28	EP2178992
IN0357/KOLNP/2010	A	2010-05-07	IN2010KN00357
CN101772554	A	2010-07-07	CN101772554
US20100302326	A1	2010-12-02	US20100302326
EP2178992	A4	2012-01-04	EP2178992
US8240836	B2	2012-08-14	US8240836
JP5224092	B2	2013-07-03	JP5224092
CN101772554	B	2013-07-31	CN101772554B
IN263988	B	2014-12-05	IN-263988
EP2178992	B1	2017-01-25	EP2178992



Abstract

(EP2178992)

A recording ink containing: a solid component containing a colorant, and a resin, and being solid in ink at 25 C, a liquid component having a boiling point higher than that of water and being liquid in ink at 25 C, and water, wherein the total amount of the solid component contained in the recording ink is equal to 8.5% by mass or higher and less than 15% by mass, a ratio (A/B) of the total amount of a water-soluble organic solvent (A), which is contained in the liquid component and has a high-boiling point of 280 C or higher (A), to the total amount of the solid component (B) contained in the

recording ink is 1.1 to 2.5, and a ratio (C/B) of the total amount of the liquid component (C) in the recording ink to the total amount of the solid component (B) in the recording ink is 1.85 to 3.10.

Inventors

MOROHOSHI NAOYA

NAMBA MICHIIKO

Latest standardized assignees - inventors removed

RICOH

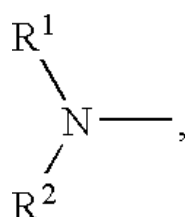
Family 11/30 - FAMPAT - ©Questel

Title

(EP2009070)

Ink-jet ink and method of producing the same, color filter and method of producing the same, display device, and method of forming functional film

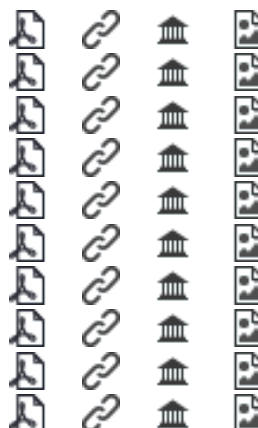
Images



Formula (1)

Publication data including kind & date

EP2009070	A1	2008-12-31	EP2009070
CN101333354	A	2008-12-31	CN101333354
KR20090004607	A	2009-01-12	KR20090004607
JP2009013206	A	2009-01-22	JP2009013206
US20090035535	A1	2009-02-05	US20090035535
TW200907426	A	2009-02-16	TW200907426
EP2009070	B1	2010-11-24	EP2009070
DE602008003618	D1	2011-01-05	DE602008003618
CN101333354	B	2012-11-07	CN101333354B
JP5171131	B2	2013-03-27	JP5171131



Abstract

(EP2009070)

An ink-jet ink used to form a functional film by ejecting an ink droplet using an ink-jet system onto a non-penetrative **substrate** includes a compound that has an amino group and an alkylene glycol portion within a molecule and serves as a wettability enhancer. Also provided are a method of producing the ink-jet ink, a method of producing a color filter using the ink-jet ink, and a method of forming a color filter or a functional film.

Inventors

WACHI NAOTAKA

FUJIMOTO SHINJI

OKABE KOUTARO

Latest standardized assignees - inventors removed

FUJIFILM

Family 12/30 - FAMPAT - ©Questel

Title

(EP2054477)

Recording ink, ink/media set, ink cartridge, **inkjet** recording method and **inkjet** recording apparatus

Images

FIG. 1

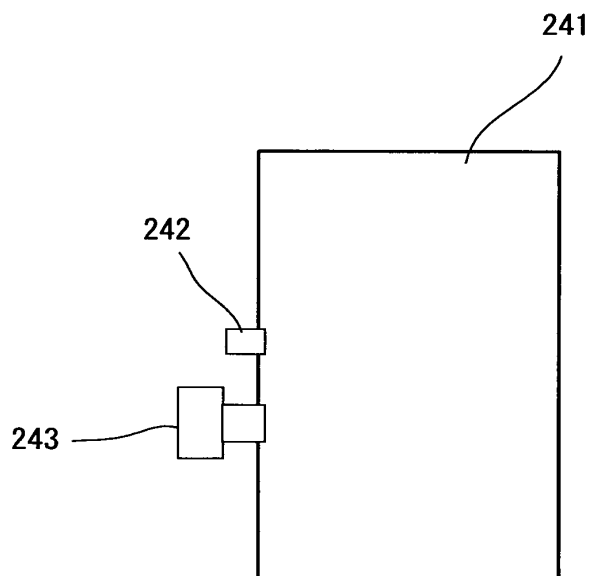
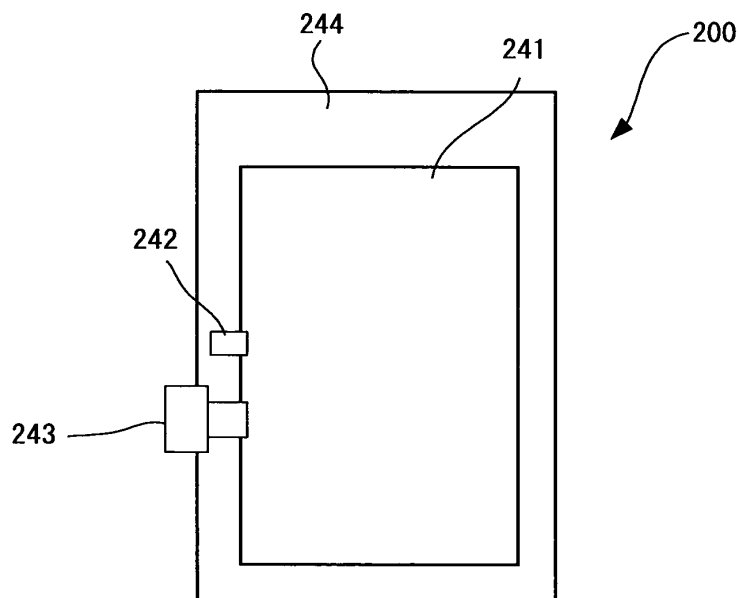


FIG. 2



Publication data including kind & date

WO2008023812	A1	2008-02-28	WO200823812
JP2008050400	A	2008-03-06	JP2008050400
KR20080072857	A	2008-08-07	KR20080072857
US20080233363	A1	2008-09-25	US20080233363
IN1691/KOLNP/2008	A	2008-12-26	IN2008KN01691



CN101356246	A	2009-01-28	CN101356246				
EP2054477	A1	2009-05-06	EP2054477				
VN20212	A	2009-07-27	VN--20212				
KR100983850	B1	2010-09-27	KR100983850				
EP2054477	A4	2011-11-30	EP2054477				
IN252453	B	2012-05-18	IN-252453				
JP5118832	B2	2013-01-16	JP5118832				
EP2054477	B1	2013-05-01	EP2054477				
US8927623	B2	2015-01-06	US8927623				
VN0015818	B	2016-09-26	VN--15818B				

Abstract

(EP2054477)

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.

Inventors

GOTO HIROSHI

Latest standardized assignees - inventors removed

RICOH

Family 13/30 - FAMPAT - ©Questel

Title

(EP2064296)

Recording ink, ink media set, ink cartridge, ink recorded matter, **inkjet** recording apparatus, and **inkjet** recording method**Images**

RICOH

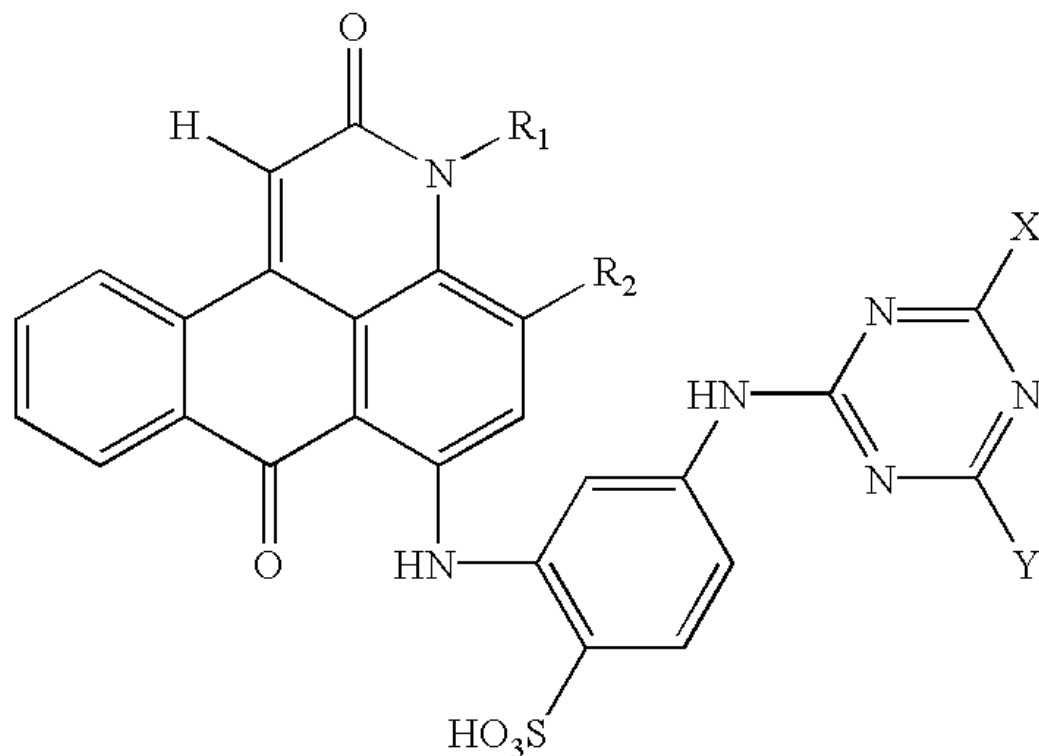
Family 14/30 - FAMPAT - ©Questel

Title

(EP1123932)

Novel anthrapyridone compounds, water-based magenta ink composition, and method of ink-jet **printing****Images**

(1)

**Publication data including kind & date**

WO200023440	A1	2000-04-27	WO200023440				
CA2347691	A1	2000-04-27	CA2347691				
JP2000191660	A	2000-07-11	JP2000191660				
KR20010075141	A	2001-08-09	KR20010075141				
EP1123932	A1	2001-08-16	EP1123932				
CN1323303	A	2001-11-21	CN1323303				
EP1123932	A4	2002-01-23	EP1123932				
EP1123932	B1	2003-07-23	EP1123932				
DE69909814	D1	2003-08-28	DE69909814				
US6645283	B1	2003-11-11	US6645283				
DE69909814	T2	2004-01-29	DE69909814				
CN1160347	C	2004-08-04	CN1160347C				
TWI235156	B	2005-07-01	TWI235156				
KR100566833	B1	2006-04-03	KR100566833				
JP4360572	B2	2009-11-11	JP4360572				

Abstract

(EP1123932)

The present invention relates to a novel anthrapyridone compound represented by Formula (1) as described below or the salt thereof which has hue and vividness suitable for ink-jet **printing** and give a **print** excellent in fastness to light and water, a water-based magenta ink composition containing any of the compounds or salt thereof, an ink-jet **printing** method using the ink composition and a new intermediate. <CHEM> wherein, R1 is hydrogen atom, an alkyl group etc; R2 is hydrogen atom, methyl etc; X and Y represent independently chlorine atom, hydroxy, etc.

Inventors

MATSUMOTO HIROYUKI

FUJII TAKAFUMI

SHIRASAKI YASUO

KITAYAMA HIROKAZU

Latest standardized assignees - inventors removed

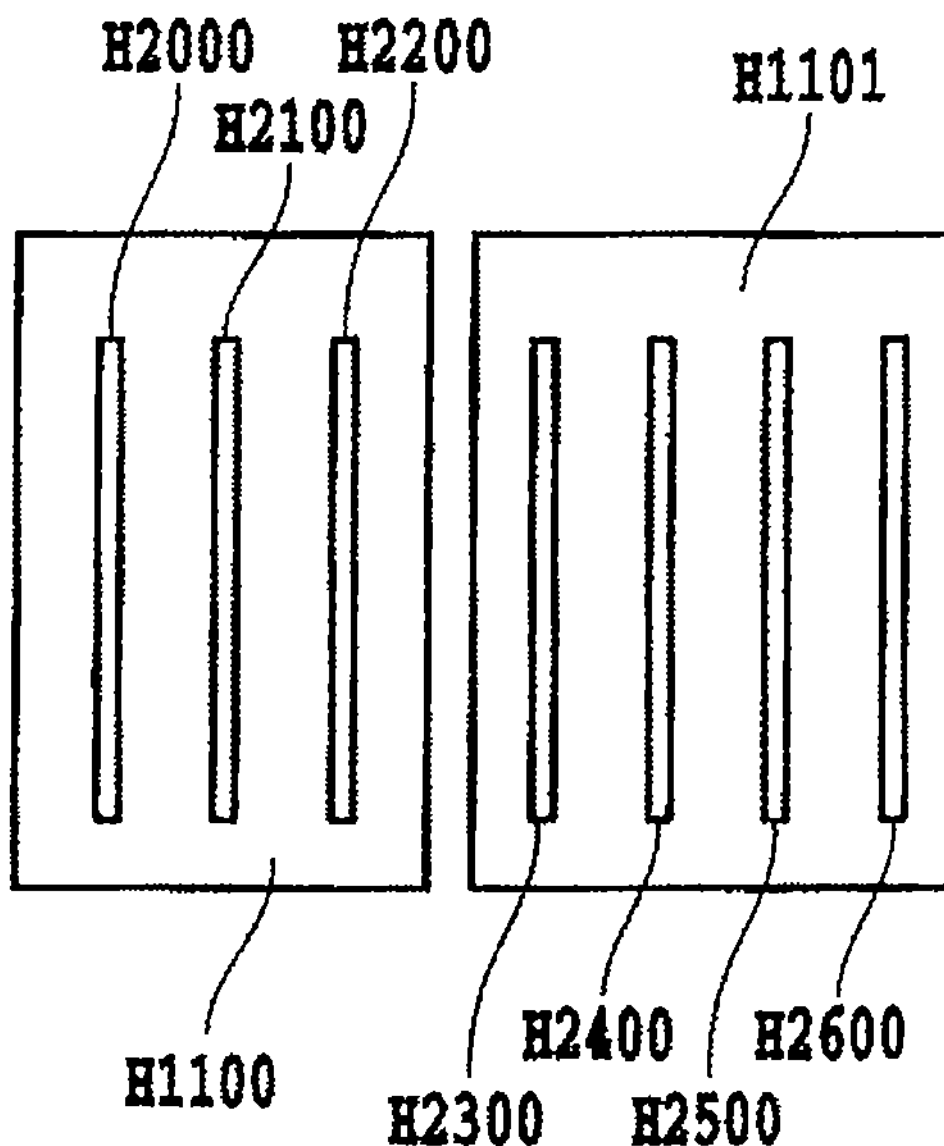
NIPPON KAYAKU

Family 15/30 - FAMPAT - ©Questel

Title

(EP1767590)

Ink, ink jet recording method, recording unit, ink cartridge, and ink jet recording apparatus

Images**Publication data including kind & date**

WO2006004203	A1	2006-01-12	WO200604203
JP2006045541	A	2006-02-16	JP2006045541
US20060103705	A1	2006-05-18	US20060103705
JP2006183056	A	2006-07-13	JP2006183056



JP3833235	B2	2006-10-11	JP3833235				
EP1767590	A1	2007-03-28	EP1767590				
KR20070038134	A	2007-04-09	KR20070038134				
CN1981007	A	2007-06-13	CN1981007				
IN0457/CHENP/2007	A	2007-08-24	IN2007CN00457				
EP1767590	A4	2007-12-05	EP1767590				
BRPI0512334	A	2008-03-04	BR200512334				
BRPI0512334	A1	2008-03-04	BRPI0512334				
RU2007104045	A	2008-08-10	RU2007104045				
RU2337932	C1	2008-11-10	RU2337932				
KR100897089	B1	2009-05-14	KR100897089				
US20090295886	A1	2009-12-03	US20090295886				
IN244498	B	2010-12-10	IN-244498				
CN1981007	B	2011-10-19	CN1981007B				
US8075126	B2	2011-12-13	US8075126				
EP1767590	B1	2012-03-28	EP1767590				
AT551405	T	2012-04-15	ATE551405				
BRPI0512334	A2	2014-05-06	BR200512334				

Abstract

(EP1767590)

An ink-jet ink contains at least a coloring material and a specific water-soluble organic solvent and has both excellent coloring property and excellent humidity resistance. The coloring material exhibits a small (9 or less) color difference "E" value which is determined by a method including a series of specific steps and is represented as the square root of $(L_1 - L_2)^2 + (a_1 - a_2)^2 + (b_1 - b_2)^2$. The specific water-soluble organic solvent has an evaporation rate X smaller than that of water and a moisture absorptivity Y, the values of X and Y satisfying the relation of $Y \leq 2.8X + 10$. The content of the specific water-soluble organic solvent is 50 mass % or more of the total amount of water-soluble organic solvents contained in the ink.

Inventors

YOSHIZAWA JUN

SATO SHIN-ICHI

NAKAMURA KUNIIHIKO

YAMASHITA TOMOHIRO

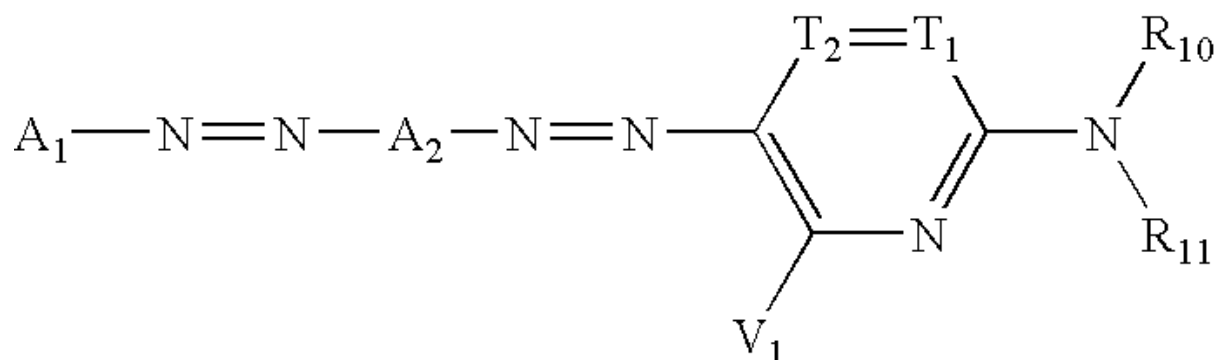
Latest standardized assignees - inventors removed

CANON

Family 16/30 - FAMPAT - ©Questel

Title

(EP1680475)

Black ink and ink set for **inkjet** recording**Images**

Publication data including kind & date

WO2005042652	A1	2005-05-12	WO200542652				
EP1680475	A1	2006-07-19	EP1680475				
KR20060109889	A	2006-10-23	KR20060109889				
CN1878844	A	2006-12-13	CN1878844				
US20070101899	A1	2007-05-10	US20070101899				
EP1680475	A4	2007-06-06	EP1680475				
JP2007516317	A	2007-06-21	JP2007516317				
US7491266	B2	2009-02-17	US7491266				
CN100526399	C	2009-08-12	CN100526399C				
KR101051405	B1	2011-07-22	KR101051405				
JP4857117	B2	2012-01-18	JP4857117				

Abstract

(EP1680475)

To provide an **inkjet** black ink having excellent image durability and ink discharge properties and an ink set, the **inkjet** black ink, which contains a dye having a $\lambda_{\max}$ of from 500 nm to 700 nm and a half-band width of 100 nm or more in an absorption spectrum of a diluted solution standardized at an absorbance of 1.0 at the $\lambda_{\max}$, has the change ratio of absorbance at the $\lambda_{\max}$ in the visible region, specified in the specification; and the **inkjet** ink set containing at least two black inks having different densities has the relationship among the at least two black inks, specified in the specification.

Inventors

TAGUCHI TOSHIKI

WACHI NAOTAKA

OGAWA MANABU

Latest standardized assignees - inventors removed

FUJIFILM

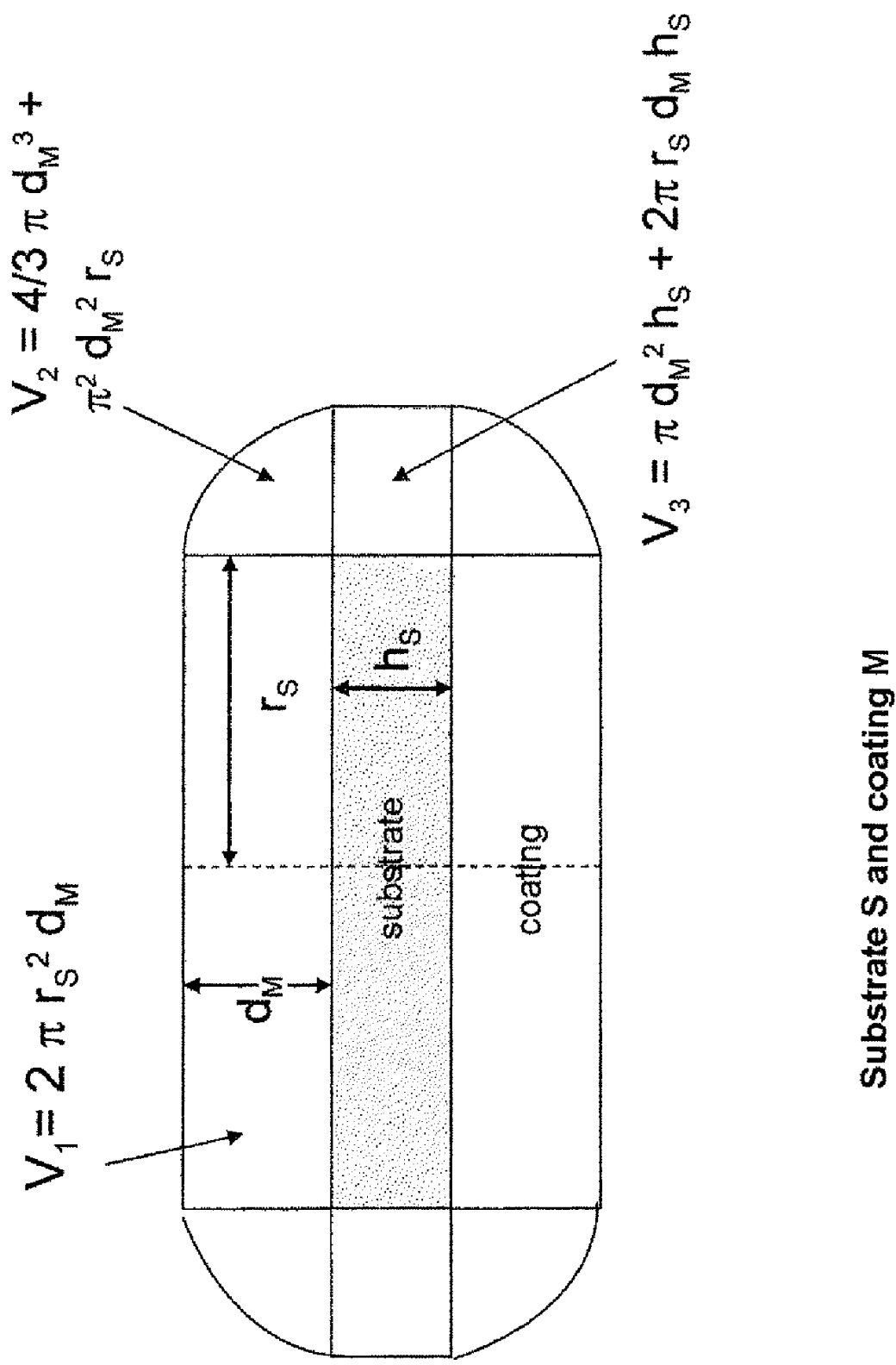
Family 17/30 - FAMPAT - ©Questel

Title

(EP2449040)

Printing ink such as an ink jet ink comprising nacreous pigments based on fine and thin substrates

Images



Publication data including kind & date

WO2011000491	A2	2011-01-06	WO201100491
DE102009031266	A1	2011-01-13	DE102009031266
WO2011000491	A3	2011-03-03	WO201100491
WO2011000491	A8	2011-05-19	WO201100491
EP2449040	A2	2012-05-09	EP2449040
US20120125229	A1	2012-05-24	US20120125229
JP2012531496	A	2012-12-10	JP2012531496
US8735461	B2	2014-05-27	US8735461



US20060164494	A1	2006-07-27	US20060164494				
CN1330485	C	2007-08-08	CN1330485C				
EP1543970	A4	2008-09-03	EP1543970				
US7441887	B2	2008-10-28	US7441887				
JP4332386	B2	2009-09-16	JP4332386				
EP1543970	B1	2010-09-15	EP1543970				
DE60334227	D1	2010-10-28	DE60334227				

Abstract

(EP1543970)

An object of the present invention is to provide an ink jet **print** system in which quality troubles (e.g. banding and ink overflow) caused by an unsuitable combination of ink and an ink jet recording medium in an ink jet recording apparatus in the case where the ink jet recording medium is an imitation, are obviated on the basis of **printing** control information obtained from the ink jet recording medium with an information-detecting sensor, and it is possible to prevent the employment of an ink jet recording medium which a user cannot judge to be a genuine product or an imitation. According to the present invention, an ink jet **print** system can be obtained in which **printing** information obtained from an image processor and the **printing** control information of the ink jet recording medium obtained from the information- detecting sensor are processed and on the basis of information of these kinds, the best image is always formed with the ink jet recording apparatus by the use of a genuine product. The **printing** control information of the ink jet recording medium is preferably a logo **print** or a cord image **print**. The ink jet recording medium is preferably of a rolled paper type. The system is stopped when an imitation is used which does not match with the **printing** control information. <IMAGE>

Inventors

SENGA TAKAO

KASAMATSU KUNIO

KAJIHARA AKITOSHI

Latest standardized assignees - inventors removed

MITSUBISHI PAPER MILLS

Family 19/30 - FAMPAT - ©Questel

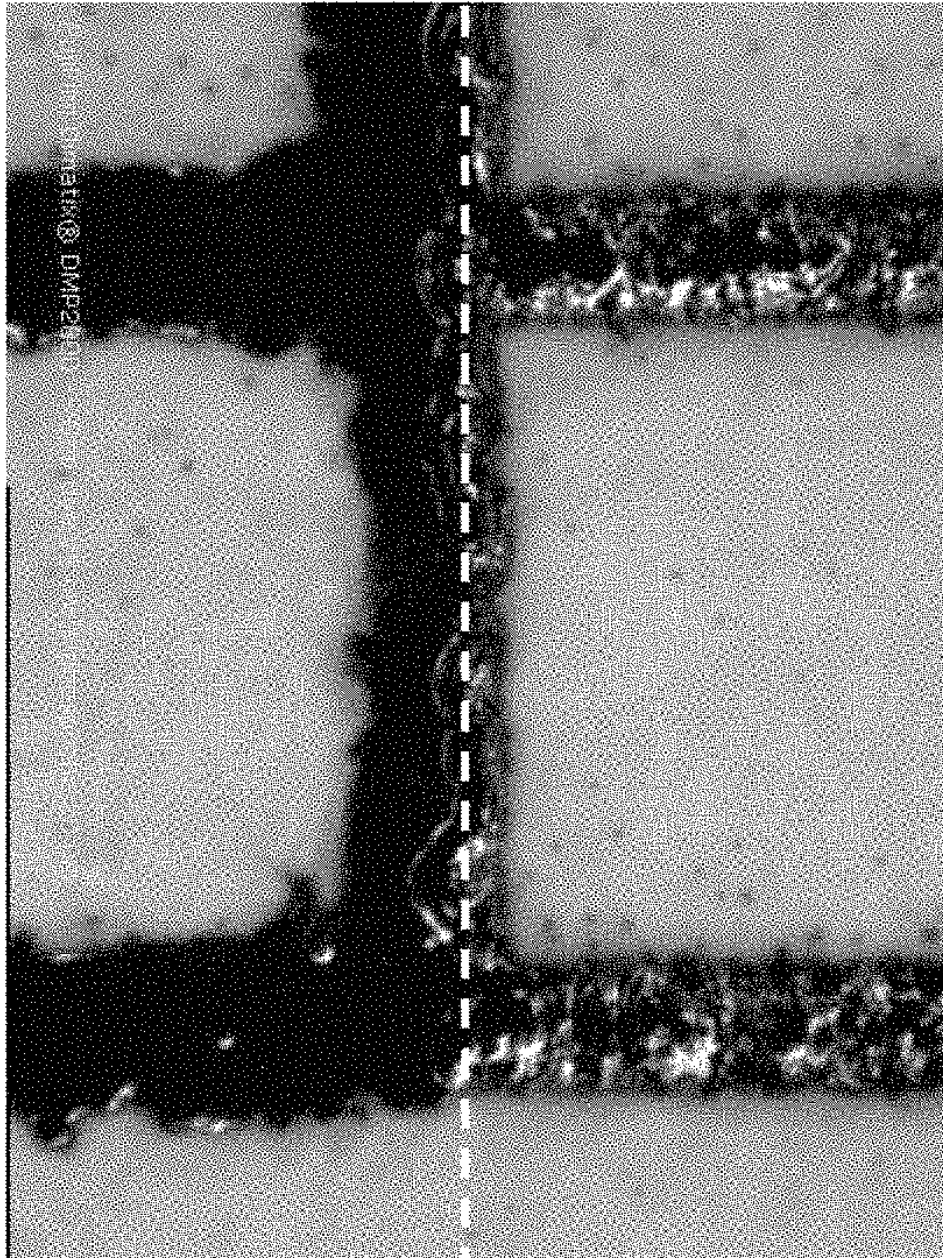
Title

(EP3293012)

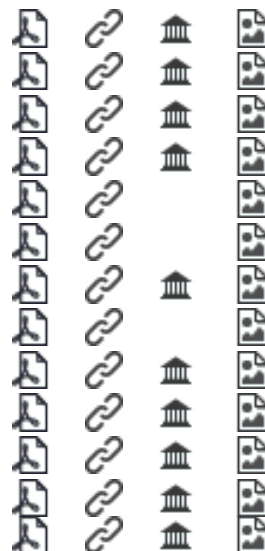
Inkjet printing method

Images

Inventive



EP3067215	A1	2016-09-14	EP3067215
CA2977435	A1	2016-09-22	CA2977435
WO2016146441	A1	2016-09-22	WO2016146441
TW201702088	A	2017-01-16	TW201702088
AR104011	A1	2017-06-21	AR-104011
SG11201706833V	A	2017-09-28	SG11201706833V
EP3067215	B1	2017-10-04	EP3067215
MX2017011660	A	2017-11-02	MX2017011660
AU2016232469	A1	2017-11-02	AU2016232469
IN201727030244	A	2017-11-10	IN201727030244
KR20170126479	A	2017-11-17	KR20170126479
IL254451	A	2017-11-30	IL-254451



CN107428189	A	2017-12-01	CN107428189				
DK3067215	T3	2018-01-02	DK3067215T				
PT3067215	T	2018-01-10	PT3067215T				
LT3067215	T	2018-01-10	LT3067215				
EP3268232	A1	2018-01-17	EP3268232				
US20180022135	A1	2018-01-25	US20180022135				
SI3067215	T1	2018-01-31	SI3067215T				
HRP20171923	T1	2018-02-09	HRP20171923				
ES2655290	T3	2018-02-19	ES2655290				
EA201792027	A1	2018-02-28	EA201792027				
EP3293012	A1	2018-03-14	EP3293012				
RS56736	B1	2018-03-30	RS--56736				
PL3067215	T3	2018-03-30	PL3067215				
CL2017002317	A1	2018-05-04	CL2317201700				
JP2018514369	A	2018-06-07	JP2018514369				
HUE037690	T2	2018-09-28	HUE037690				
AU2016232469	B2	2019-01-03	AU2016232469				

Abstract

(EP3293012)

The present invention relates to a method for manufacturing an **inkjet-printed substrate**, wherein a liquid treatment composition comprising at least one acid and an ink are deposited onto a **substrate** simultaneously or consecutively by **inkjet printing**, wherein the **substrate** comprises a **coating layer** comprising a salifiable **alkaline** or **alkaline** earth compound.

Inventors

BOLLSTROEM ROGER

SCHOELKOPF JOACHIM

GANE PATRICK A C

Latest standardized assignees - inventors removed

OMYA

Family 20/30 - FAMPAT - ©Questel

Title

(EP2328982)

inkjet ink, ink cartridge, **inkjet** recording apparatus, **inkjet** recording method and image forming apparatus**Images**

KATSURAGI KOJI

NAGASHIMA HIDEFUMI

Latest standardized assignees - inventors removed

RICOH

Family 21/30 - FAMPAT - ©Questel

Title

(EP1543083)

Process and ink for making electronic devices

Images

TABLE 1

Expressed in parts by weight.

		Example									
No.	Example	1	2	3	4	5	6	7	8	9	10
<u>Acrylate Monomers</u>											
1	Sartomer 506	34.9	29.9	34.9	29.9	29.9	29.9	29.9	29.9	35.7	33.2
2	Sartomer 306	23	23	23	23	23	23	23	23	23	23
3	Acitlane 430	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
4	Acitlane 251	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
5	Photomer 4072										
6	Photomer 5429										
7	Photomer 4039										
8	Lauryl acrylate										
9	Isodecyl acrylate										
10	Acitlane 411										
11	Iso octyl acrylate										
<u>Acid Monomers</u>											
12	Acrylic acid	5	10							2.5	5
13	Methacrylic acid			5	10						
14	Itaconic acid					10					
15	Maleic acid						10				
16	MAES							10			
17	Fumaric acid								10		
18	Bis MAEP										
19	EGMP										
20	MAEPth										

Publication data including kind & date

GB0221892

D0 2002-10-30

GB200221892

WO2004026977

A1 2004-04-01

WO200426977

AU2003260741

A1 2004-04-08

AU2003260741

TW200422356

A 2004-11-01

TW200422356



KR20050057463	A	2005-06-16	KR20050057463				
EP1543083	A1	2005-06-22	EP1543083				
CN1694934	A	2005-11-09	CN1694934				
JP2005539391	A	2005-12-22	JP2005539391				
US20060154033	A1	2006-07-13	US20060154033				
EP1543083	B1	2006-08-09	EP1543083				
AT335796	T	2006-09-15	ATE335796				
DE60307485	D1	2006-09-21	DE60307485				
DE60307485	T2	2007-04-12	DE60307485				
US7427360	B2	2008-09-23	US7427360				
KR100966508	B1	2010-06-29	KR100966508				
TWI340754	B	2011-04-21	TWI340754				

Abstract

(EP1543083)

A process for making an electronic device comprising a dielectric **substrate** laminated with an electrically conductive metal or alloy which comprises applying a non-aqueous etch-resistant ink by ink jet **printing** to selected areas of the metal or alloy, exposing the etch-resistant ink to actinic radiation and/or particle beam radiation to effect polymerisation, removing exposed metal or alloy by a chemical etching process and then removing the polymerised etch-resistant ink by alkali wherein the etch-resistant ink is substantially solvent free and comprises the components: A) 30 to 90 parts acrylate functional monomers free from acid groups comprising mono or higher functionality wherein 5 - 95% by weight is one or more mono-functional monomers; B) 1 to 30 parts acrylate functional monomer containing one or more acid groups; C) 0 to 20 parts polymer or prepolymer; D) 0 to 20 parts radical initiator; E) 0 to 5 parts colorant; F) 0 to 5 parts surfactant; and wherein the ink has a viscosity of not greater than 30 cPs (mPa.s) at 40°C and all parts are by weight.

Inventors

HOPPER ALAN JOHN

JAMES MARK ROBERT

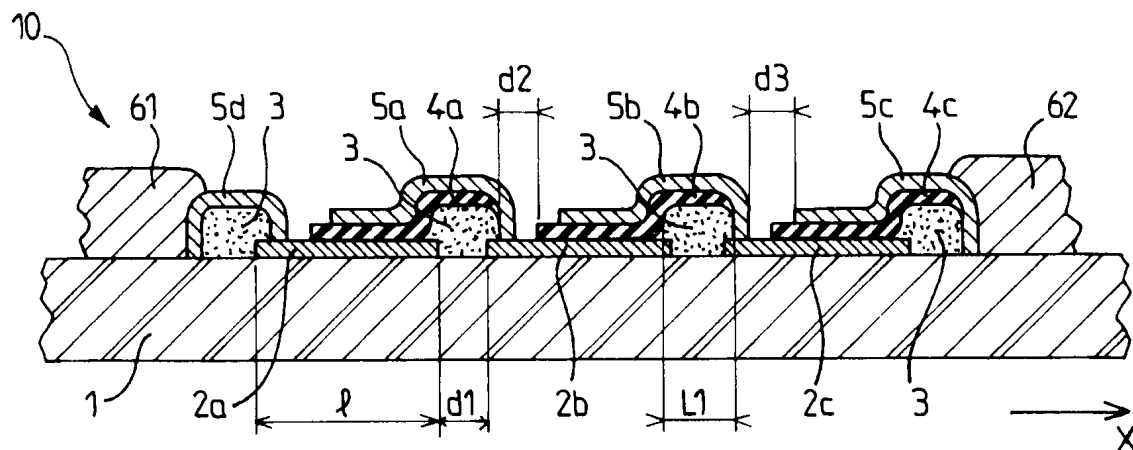
Latest standardized assignees - inventors removed

FUJIFILM IMAGING COLORANTS

Family 22/30 - FAMPAT - ©Questel

Title

(EP2130241)

Substrate bearing a discontinuous electrode, organic electroluminescent device including same and manufacture thereof**Images****Publication data including kind & date**

FR2913146	A1	2008-08-29	FR2913146				
WO2008119899	A2	2008-10-09	WO2008119899				



TW200904246	A	2009-01-16	TW200904246				
WO2008119899	A3	2009-03-26	WO2008119899				
FR2913146	B1	2009-05-01	FR2913146				
IN2668/KOLNP/2009	A	2009-08-28	IN2009KN02668				
KR20090125095	A	2009-12-03	KR20090125095				
EP2130241	A2	2009-12-09	EP2130241				
CN101617418	A	2009-12-30	CN101617418				
US20100117523	A1	2010-05-13	US20100117523				
JP2010519699	A	2010-06-03	JP2010519699				
CN101617418	B	2013-12-25	CN101617418B				
JP5723529	B2	2015-05-27	JP5723529				

Abstract

(EP2130241)

The invention relates to a **substrate** for an organic electroluminescent device (10) that bears a discontinuous electrode (2a-2c) with a metallic functional **layer** having an electric-conductivity intrinsic property between a contact **layer** and an upper **layer**, wherein the electrode has a square resistance lower than or equal to 50/square for a functional **layer** thickness lower than 100 nm, the electrode being the form of at least one row of electrode areas, each electrode area having a first dimension (E) of at least 3 cm in the direction (X) of said row, the electrode areas of each row being separated from each other by a so-called intra-row distance (d1) lower than or equal to 0.5 mm. The invention also relates to an organic electroluminescent device (10) comprising the same, as well as to the manufacture of said electrode and said device.

Inventors

TCHAKAROV SVETOSLAV

Latest standardized assignees - inventors removed

SAINT GOBAIN GLASS

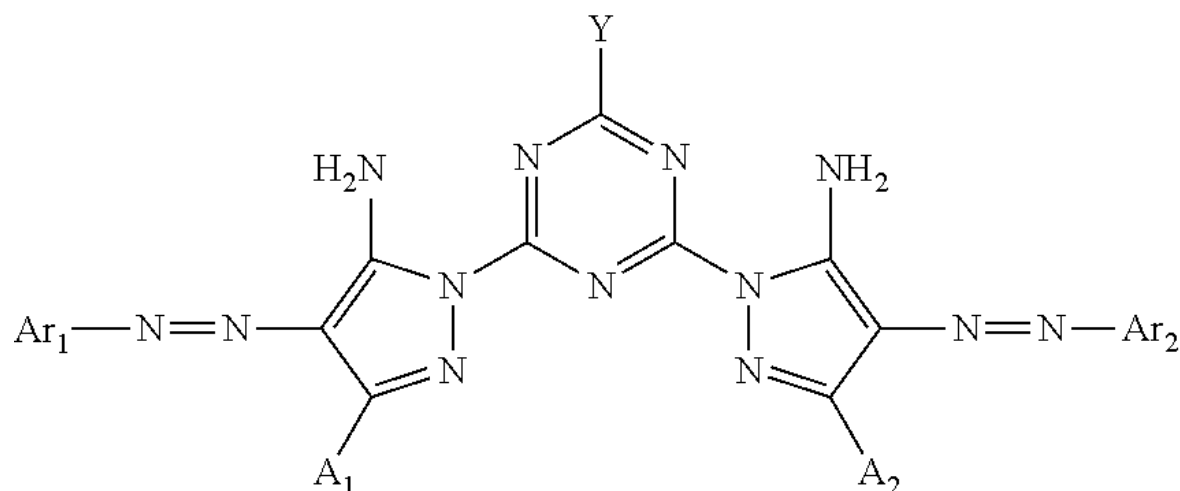
Family 23/30 - FAMPAT - ©Questel

Title

(EP2290025)

Ink composition, ink composition for **inkjet** recording, ink set, ink cartridge, **inkjet** recording method, and recorded matter**Images**

Formula (1)

**Publication data including kind & date**

WO2009154185	A1	2009-12-23	WO2009154185				
CA2728154	A1	2009-12-23	CA2728154				
AU2009261211	A1	2009-12-23	AU2009261211				
JP2010024444	A	2010-02-04	JP2010024444				

KR20110019375	A	2011-02-25	KR20110019375				
EP2290025	A1	2011-03-02	EP2290025				
US20110104458	A1	2011-05-05	US20110104458				
CN102066506	A	2011-05-18	CN102066506				
EP2290025	A4	2012-06-20	EP2290025				
US8523990	B2	2013-09-03	US8523990				
CN102066506	B	2013-09-11	CN102066506B				
AU2009261211	B2	2014-04-03	AU2009261211				
JP5637666	B2	2014-12-10	JP5637666				
CA2728154	C	2016-01-12	CA2728154				
KR101656720	B1	2016-09-12	KR101656720				
EP2290025	B1	2017-10-11	EP2290025				

Abstract

(EP2290025)

An ink composition having a suitably-adjusted hue and causing no decomposition of dyes during storage is provided. The ink composition is an ink composition containing a compound (a) represented by the following formula (1), an ingredient (c) and moisture-retentive agents, characterized by being from 0.1 mass % to lower than 7.0 mass % in content of the compound represented by the formula (1), 10.0 mass % or lower in content of a moisture-retentive agent having 3 or more hydroxyl groups (b) and lower than 30.0 in molar ratio of the moisture-retentive agent having 3 or more hydroxyl groups to the compound represented by the formula (1). In the formula, each of Ar 1 and Ar 2 preferably represents an aromatic heterocyclic group, each of A 1 and A 2 represents a hydrogen atom or a substituent. Y represents -OM or -NR¹ R², M represents a hydrogen atom or a metal ion and each of R 1 and R 2 represents a hydrogen atom, an alkyl group, an aryl group, a heterocyclic group or the like. The ingredient (c) is at least one compound selected from C.I. Direct Yellow 59, id. 86, id. 132 or the like.

Inventors

TANAKA SHIGEAKI

TATEISHI KEIICHI

OZAWA TAKASHI

Latest standardized assignees - inventors removed

FUJIFILM

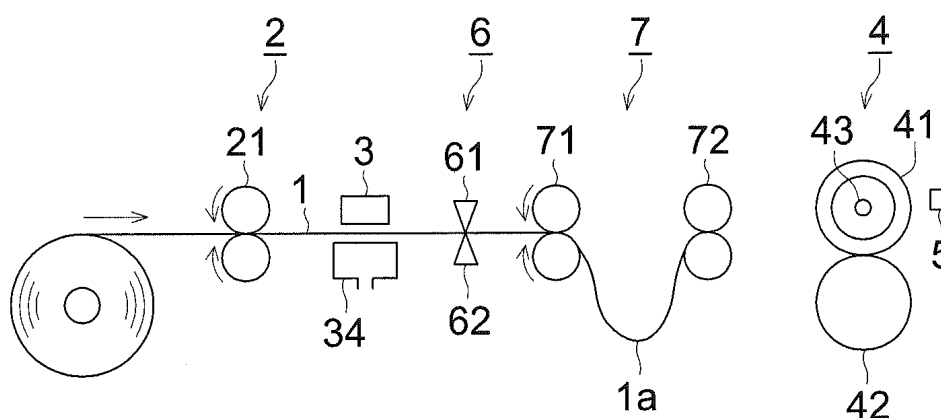
Family 24/30 - FAMPAT - ©Questel

Title

(EP2508349)

Ink-jet image forming method and ink-jet ink set

Images



Publication data including kind & date

WO2011065095	A1	2011-06-03	WO201165095
EP2508349	A1	2012-10-10	EP2508349
US20130044168	A1	2013-02-21	US20130044168
JPWO2011065095	A1	2013-04-11	JP2011065095W
JP5250854	B2	2013-07-31	JP5250854
EP2508349	A4	2014-02-19	EP2508349
EP2508349	B1	2016-07-13	EP2508349
US9499703	B2	2016-11-22	US9499703



Abstract

(EP2508349)

Disclosed is an **inkjet** image forming method using active energy ray curable ink which has excellent **printing** durability, gloss uniformity on **coated** paper, and suitability for paper feeding, and which resists being transferred to the reverse side when **printed** pages are stored in a stack where the **printed** sections come into contact with another **printed** page; also disclosed is an **inkjet** ink set. The **inkjet** image forming method is characterized by applying to a base material, then heating, a colorless ink not containing a colorant but containing an active energy ray curable composition and a gelling agent which forms a thermoreversible gel, and thereafter irradiating said colorless ink with active energy rays.

Inventors

KAGA MAKOTO
MAEDA AKIO

Latest standardized assignees - inventors removed

KONICA MINOLTA

Family 25/30 - FAMPAT - ©Questel

Title

(EP3115424)

Durable and flexible ink composition for high-quality/high-definition screen **printing**, **printed** product obtained by screen **printing** said ink composition, and manufacturing method for said **printed** product

Images

实施例1	实施例2	实施例3	实施例4	实施例5	实施例6	实施例7	实施例8	实施例9	实施例10	比较例1	比较例2	比较例3	比较例4	比较例5	比较例6
油墨组合物配合															
聚酯树脂(分子量 6000)	12.5	15.0			25.0				2.0	12.5					
聚酯树脂(分子量 28000)	10.0	15.0			5.0			20.0		12.5					
丙烯酸树脂(分子量 100000)															
羧基-丙烯酸乙酯共聚树脂(分子量 47000)					25.0						8.0	25.0		5.0	10.0
环氧树脂(分子量 60000)			70.0								8.0				
聚酯树脂(分子量 2000)						75.0							80.0		
并苯二酚(沸点 216℃)		25.0			14.0		40.0					20.0		40.0	40.0
DBE(沸点 203-245℃)	20.0	10.0			2.0			30.0	12.0	10.0	25.0				10.0
3-甲氧基-3-甲基丁醇(沸点 174℃)			20.0												10.0
煤油石油树脂(沸点 180-200℃)	2.8				2.0			5.0		5.0		20.0			
1,6-己二醇二丙烯酸酯(沸点 200℃以上)						7.0							3.0		
二苯基四羧六丙酮酸酐(沸点 200℃以上)						7.0	10.0						8.0		
1-甲氧基丙基-2-乙酮酸酐(沸点 146℃)							5.0					5.0			
1-甲氧基-2-丙酮酸酐(沸点 120℃)	9.7		3.0							15.0	17.0				9.0
环己酮(沸点 156℃)					4.0							7.0			
二丙酮酸酐(沸点 168℃)			2.0					5.0							
炭黑颜料	10.0	5.0			5.0					10.0	10.0	5.0		5.0	5.0
酞菁绿颜料		5.0			5.0						10.0	5.0		5.0	5.0
导电性炭黑颜料								10.0							
石墨								20.0							
铜粉									85.0						
光引发剂						4.0							4.0		
消泡剂、添加剂等	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	1.0	5.0	5.0	5.0	5.0	5.0	5.0
二氧化硅	10.0	10.0	15.0		5.0	3.0	15.0			10.0	15.0	3.0		20.0	2.0
滑石	20.0	10.0	10.0		10.0					20.0	10.0			10.0	
<配合重量比的合计>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	108.0	100.0	100.0	100.0	101.0
<被印刷体>															
《物性值》															
粘度[Pa·s]	100.0	75.0													
TI 值[-]	7.0	6.0	8.0	2.0	4.0	5.0	5.0	2.5	5.0	6.0	8.0	3.0	1.0	10.0	2.0
流动度[mm]	15.5	17.0	18.0	14.0	16.0	18.0	16.5	15.0	14.0	16.0	15.0	19.0	19.0	15.0	21.0
F60-F45[mm]	0.4	0.6	0.2	1.0	0.7	0.8	0.6	0.3	0.2	0.5	0.1	1.0	1.2	0.1	1.5
油墨中粒子的平均粒径[μm]	30.0	25.0	15.0	0.0	35.0	20.0	7.5	10.0	8.0	25.0	35.0	25.0	0.0	30.0	15.0
图像边缘的平滑度[μm]	5.0	6.0	4.0	10.0	6.0	9.0	7.0	8.0	4.0	6.0	2.0	20.0	25.0	0.0	30.0
《印刷图像的评价》															
φ100μm 点印刷图像的高质量・高精细性评价	○	◎	◎	○	○	◎	◎	○	○	△	◎	△	×	○	×
100μm 横纹线印刷图像的高质量・高精细性评价	◎	◎	○	○	○	◎	◎	◎	◎	△	○	△	×	○	×
一边为 100mm 的正方形实地图像的高质量・高精细性评价	◎	◎	○	○	◎	○	◎	○	○	○	×	○	◎	△	◎

Publication data including kind & date

JP5901860

B1 2016-04-13

JP5901860

IL244328

A 2016-05-31

IL-244328

CA2927273

A1 2016-07-27

CA2927273



TW201627423	A	2016-08-01	TW201627423				
CA2972574	A1	2016-08-04	CA2972574				
WO2016121724	A1	2016-08-04	WO2016121724				
WO2016121726	A1	2016-08-04	WO2016121726				
WO2016121220	A1	2016-08-04	WO2016121220				
WO2016121141	A1	2016-08-04	WO2016121141				
JP5968574	B1	2016-08-10	JP5968574				
PH12016501451	A1	2016-08-22	PH12016501451				
PH12016501451	B1	2016-08-22	PH12016501451				
KR20160102962	A	2016-08-31	KR20160102962				
KR101660681	B1	2016-09-27	KR101660681				
TW201634603	A	2016-10-01	TW201634603				
CA2927273	C	2016-10-04	CA2927273				
JP6008436	B1	2016-10-19	JP6008436				
JP6008435	B1	2016-10-19	JP6008435				
EP3081606	A1	2016-10-19	EP3081606				
MX2016005897	A	2016-10-20	MX2016005897				
TWI554575	B	2016-10-21	TWI554575				
VN49116	A	2016-10-25	VN--49116				
BR112016009554	A1	2016-11-01	BR112016009554				
CN106068313	A	2016-11-02	CN106068313				
IN201627036570	A	2016-11-18	IN201627036570				
IN201627036574	A	2016-11-18	IN201627036574				
KR20160145831	A	2016-12-20	KR20160145831				
KR20160147284	A	2016-12-22	KR20160147284				
KR20160148025	A	2016-12-23	KR20160148025				
SG11201609669Q	A	2016-12-29	SG11201609669Q				
SG11201609672X	A	2016-12-29	SG11201609672X				
SG11201609670R	A	2016-12-29	SG11201609670R				
SG11201609666Y	A	2016-12-29	SG11201609666Y				
IL244328	B	2016-12-29	IL-244328				
EP3115422	A1	2017-01-11	EP3115422				
EP3115423	A1	2017-01-11	EP3115423				
EP3115424	A1	2017-01-11	EP3115424				
TW201702320	A	2017-01-16	TW201702320				
PH12016502227	A1	2017-01-16	PH12016502227				
PH12016502227	B1	2017-01-16	PH12016502227				
EP3081606	A4	2017-01-18	EP3081606				
MX2016013697	A	2017-01-20	MX2016013697				
IN201627021717	A	2017-01-20	IN201627021717				
TW201704378	A	2017-02-01	TW201704378				
RU2610757	C1	2017-02-15	RU2610757				
TWI571495	B	2017-02-21	TWI571495				
CN106459625	A	2017-02-22	CN106459625				
CN106459629	A	2017-02-22	CN106459629				
CN106459624	A	2017-02-22	CN106459624				
PH12016502422	A1	2017-03-06	PH12016502422				
MX2016013758	A	2017-03-09	MX2016013758				

MX2016013765	A	2017-03-09	MX2016013765				
TWI573842	B	2017-03-11	TWI573842				
VN51471	A	2017-03-27	VN--51471				
VN51472	A	2017-03-27	VN--51472				
VN51470	A	2017-03-27	VN--51470				
TWI579346	B	2017-04-21	TWI579346				
JPWO2016121724	A1	2017-04-27	JP2016121724W				
JPWO2016121726	A1	2017-04-27	JP2016121726W				
JPWO2016121220	A1	2017-04-27	JP2016121220W				
JPWO2016121141	A1	2017-04-27	JP2016121141W				
PH12017500289	A1	2017-07-17	PH12017500289				
PH12017500289	B1	2017-07-17	PH12017500289				
BR112016009554	A2	2017-08-01	BR112016009554				
KR101766621	B1	2017-08-08	KR101766621				
KR101766622	B1	2017-08-08	KR101766622				
KR101766620	B1	2017-08-08	KR101766620				
US20170233593	A1	2017-08-17	US20170233593				
IL253083	A	2017-08-31	IL-253083				
IN201627036558	A	2017-09-08	IN201627036558				
BR112017014807	A1	2017-09-19	BR112017014807				
US20170321072	A1	2017-11-09	US20170321072				
US20170320345	A1	2017-11-09	US20170320345				
CN107384023	A	2017-11-24	CN107384023				
EP3115422	A4	2017-12-27	EP3115422				
CA2972574	C	2018-01-02	CA2972574				
BR112017014807	A2	2018-01-09	BR112017014807				
US20180010002	A1	2018-01-11	US20180010002				
CN107586486	A	2018-01-16	CN107586486				
US9879145	B2	2018-01-30	US9879145				
CN106459625	B	2018-04-03	CN106459625B				
CN106459629	B	2018-04-03	CN106459629B				
VN0019185	B	2018-06-25	VN--19185B				
IL253083	B	2018-06-28	IL-253083				
CN106459624	B	2018-07-10	CN106459624B				
EP3115423	A4	2018-08-01	EP3115423				
EP3115424	A4	2018-08-01	EP3115424				
RU2664054	C1	2018-08-14	RU2664054				
CN108485370	A	2018-09-04	CN108485370				
EP3081606	B1	2018-09-12	EP3081606				
VN0019753	B	2018-09-25	VN--19753B				
EP3115422	B1	2018-10-10	EP3115422				
CN106068313	B	2018-11-23	CN106068313B				

Abstract

(EP3115424)

[Problem] In recent years, with the increasing diversity of **printed** matter design and higher definition of **printed** images by screen **printing** on electric and electronic parts composed of thermoplastic resin substrates and screen **printing** for graphics decoration, demand is increasing for more convenient and lower cost production of **printed** matter comprising both fine patterns and wide-area solid patterns. Also higher quality and higher definition of the visibility of **printed** images is desired

that comprise both fine patterns and solid patterns, by improving the sharpness of the image edge sections in solid patterns while also obtaining a satisfactory leveling property. Furthermore, flexibility is desired for high-quality/high-definition printed matter to allow three-dimensional shape forming. [Solution Means] An ink composition for screen printing to be used onto a thermoplastic resin substrate that can produce printed matter comprising both a solid image pattern and a fine image pattern with the spreading width of no more than 10 μm from the image design dimensions of the printing plate at the edges or outlines of any section in the printed image, when producing printed matter by screen printing onto a thermoplastic resin substrate using a 360-mesh screen printing plate formed by a high-strength, non-deforming stainless steel mesh with a filament diameter of 25 μm , wherein the measured flow radius value of the ink composition is 13.0 to 24.0 mm after 1 minute from the start of measurement by a flow property measuring method using a spread meter at 25°C according to JIS K5701-1:2000, the inequality "F60" - "F45" ≥ 1.0 mm is satisfied, wherein "F60" is defined as the measured flow radius value after 1 minute and "F45" is defined as the measured flow radius value after 45 seconds from the start of measurement by the flow property measuring method using the spread meter, the viscosity is 5 to 180 Pa·s as measured with a BH-type rotating viscosimeter at 25°C, the thixotropic index (TI value) is 2.0 to 8.0, the composition contains a solvent with a boiling point of not less than 170°C at not less than 70 mass% of the total solvent and a thermoplastic polymer with a weight-average molecular weight of not less than 4000 and with a Tg of 20 to 95°C at not less than 10 mass% with respect to the total ink composition, and that can produce printed matter, wherein the printed image coating film has an elongation percentage of not less than 250% under vacuum forming or pressure forming.

Inventors

OGATA TOMOMI

TORIHATA TAKUYA

TAKADA NAOTO

Latest standardized assignees - inventors removed

TEIKOKU PRINTING INKS MANUFACTURING

Family 26/30 - FAMPAT - ©Questel

Title

(EP1543704)

Printing process and solder mask ink composition

Images

Expressed in parts by weight.

[illegible]

Publication data including kind & date

GB0221893	D0	2002-10-30	GB200221893				
WO2004028225	A1	2004-04-01	WO200428225				
AU2003260739	A1	2004-04-08	AU2003260739				
TW200420682	A	2004-10-16	TW200420682				
KR20050057461	A	2005-06-16	KR20050057461				
EP1543704	A1	2005-06-22	EP1543704				
CN1695407	A	2005-11-09	CN1695407				
JP2005539390	A	2005-12-22	JP2005539390				
US20060047014	A1	2006-03-02	US20060047014				
EP1543704	B1	2006-05-17	EP1543704				
AT326828	T	2006-06-15	ATE326828				
DE60305333	D1	2006-06-22	DE60305333				
DE60305333	T2	2007-03-29	DE60305333				
TWI318231	B	2009-12-11	TWI318231				

Abstract

(EP1543704)

A process for making an electronic device which comprises applying a non-aqueous solder mask ink which is substantially free from organic solvent to a dielectric **substrate** containing electrically conductive metal circuitry, exposing the solder mask ink to actinic radiation and/or particle beam radiation optionally followed by thermal treatment, whereby the solder mask ink is applied to selected areas of the **substrate** under the control of a computer by ink jet **printing** and wherein the solder mask ink comprises the components: A) 30 - 90 parts acrylate functional monomers which are mono or higher acrylate functional monomers comprising from 5 - 95 % by weight of one or more monofunctional monomers; B) 0.1 - 30 parts metal adhesion promoting organic compound; C) 0 - 30 parts initiator; D) 0 - 10 parts polymer and/or prepolymer; E) 0 - 5 parts colorant; E) 0 - 5 parts surfactant; and Wherein all parts are by weight.

Inventors

HOPPER ALAN JOHN

JAMES MARK ROBERT

Latest standardized assignees - inventors removed

FUJIFILM IMAGING COLORANTS

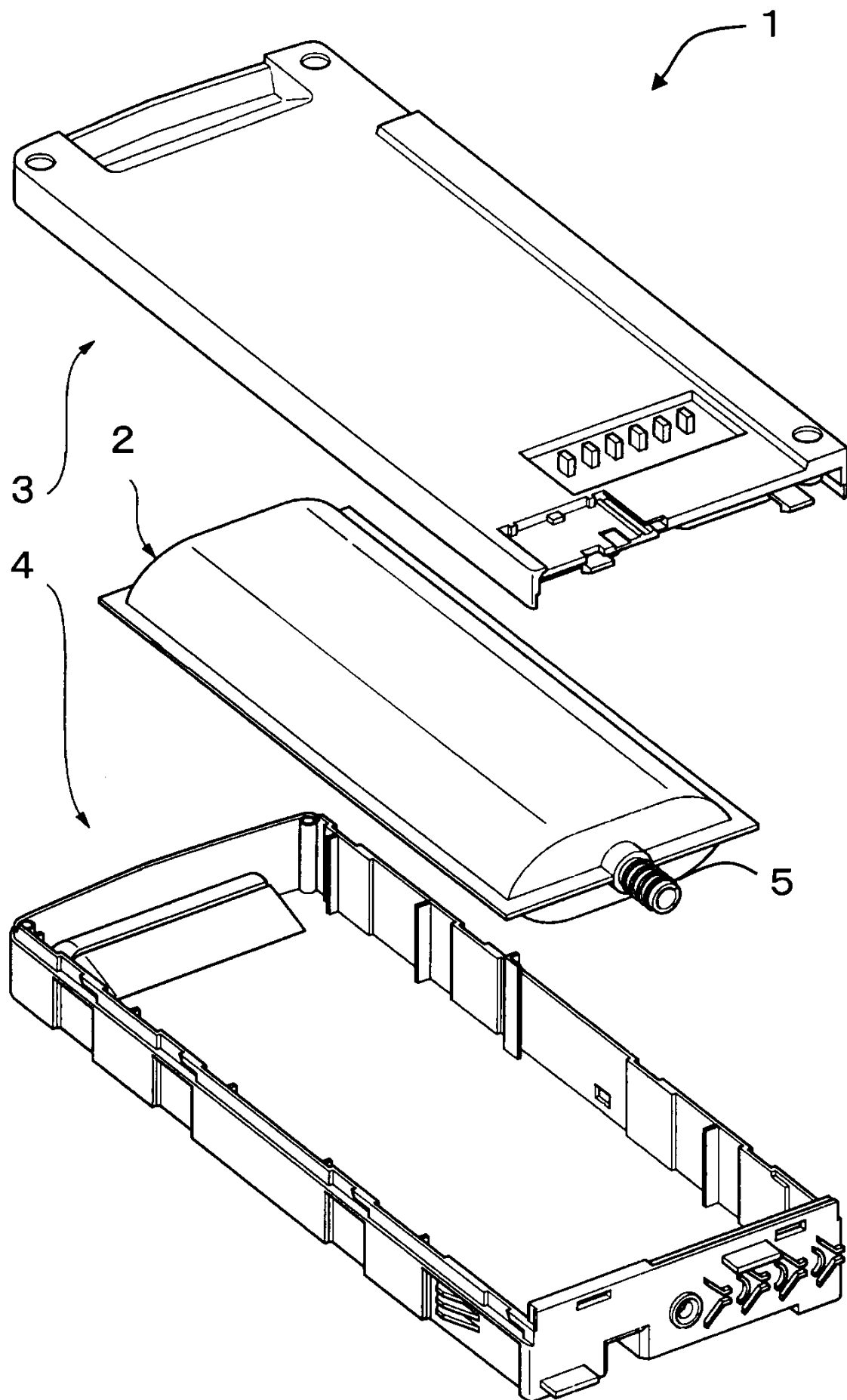
Family 27/30 - FAMPAT - ©Questel

Title

(WO201388907)

Inkjet recording ink, ink cartridge, method for manufacturing **inkjet** recording ink, method for manufacturing ink cartridge, and recording method

Images

**Publication data including kind & date**[WO2013088907](#)

A1 2013-06-20

WO201388907

[JP2013144774](#)

A 2013-07-25

JP2013144774



JP6058955

B2 2017-01-11 JP6058955

Abstract

(WO201388907)

Provided is an inkjet recording ink having safety, storage stability, stable discharge performance from a recording head, and printed matter drying properties as an inkjet recording ink containing an organic fluorescent pigment, and an ink cartridge is also provided. An inkjet recording ink that can be favorably used in an inkjet recording device, and an ink cartridge that stores this ink can be obtained through use of an inkjet recording ink including an organic fluorescent pigment, a pigment dispersing agent, an organic solvent, and a binder resin, wherein the organic solvent is a main solvent, the organic fluorescent pigment is dissolved in the organic solvent, and a high-molecular-weight resin and a low-molecular-weight resin are jointly used as the binder resin.

Inventors

YAMAMOTO HIROTAKE

HOSOI KEIJI

Latest standardized assignees - inventors removed

SEIKO I INFOTECH

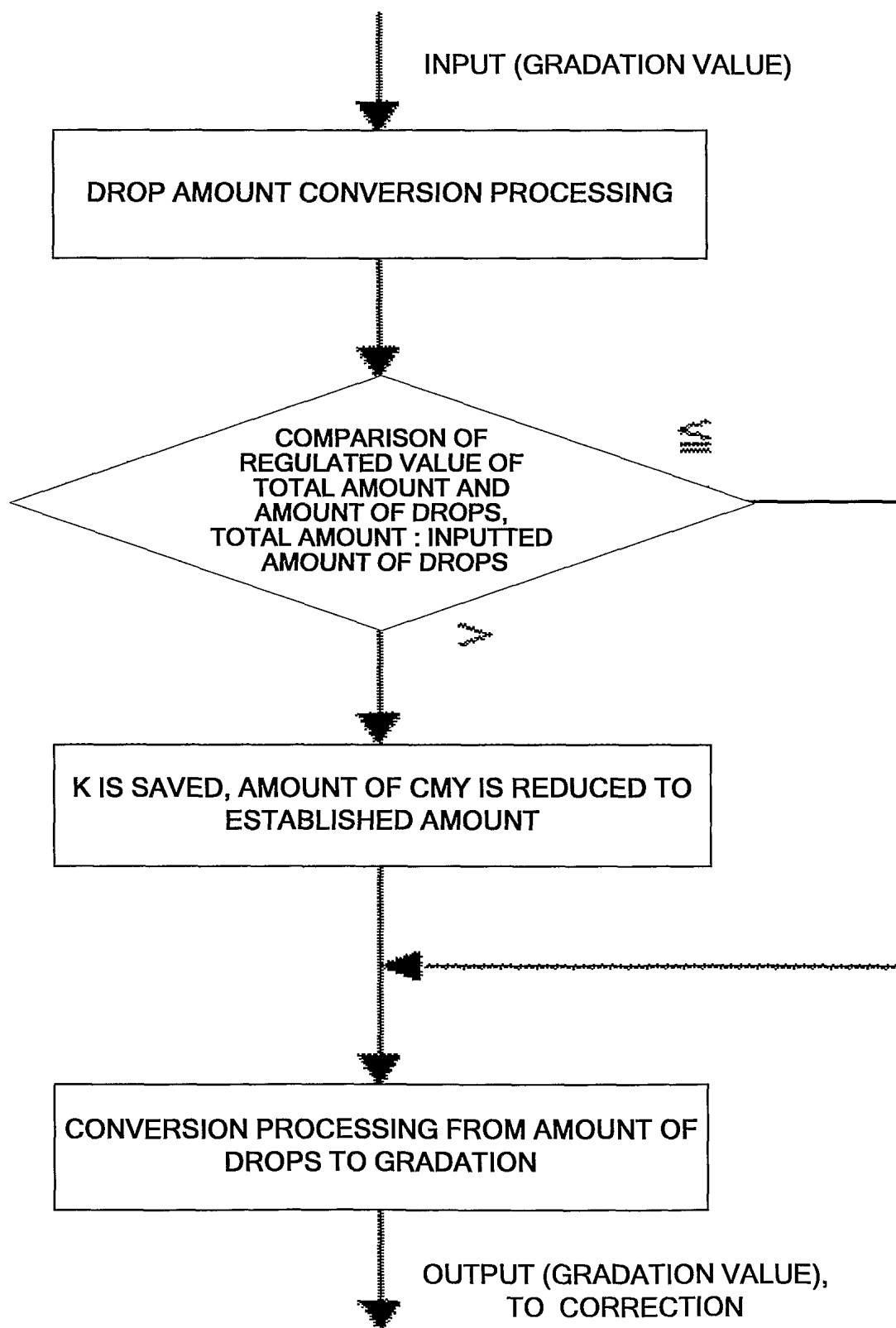
Family 28/30 - FAMPAT - ©Questel

Title

(EP2136999)

Ink-jet recording method

Images

**Publication data including kind & date**

WO2008114884	A1	2008-09-25	WO2008114884
JP2008260279	A	2008-10-30	JP2008260279
IN4705/KOLNP/2008	A	2009-03-13	IN2008KN04705
CN101541551	A	2009-09-23	CN101541551
EP2136999	A1	2009-12-30	EP2136999
US20100245416	A1	2010-09-30	US20100245416
EP2136999	A4	2011-12-28	EP2136999
US8096651	B2	2012-01-17	US8096651



CN101541551	B	2012-02-29	CN101541551B
EP2136999	B1	2015-02-25	EP2136999
IN286931	B	2017-09-08	IN-286931



Abstract

(EP2136999)

An ink-jet recording method including: **printing** on a medium by ejecting thereon ink having a pH value of 8 or more and containing at least a particulate colorant, emulsion resin and surfactant, the medium prepared by providing at least a **coat layer** containing a pigment on at least one surface of a **substrate** containing cellulose pulp as a main component, wherein **printing** is performed at a deposited ink amount of 15 g/m² or less, and wherein the medium has a pH value of 8 or more at a paper surface, and the amount of pure water transferring onto a surface of the medium having the **coat layer** after a contact time of 100 ms measured with a dynamic scanning absorptometer is 30 mL/m² or less and the amount of pure water transferring onto the surface of the medium after a contact time of 400 ms is 35 mL/m² or less.

Inventors

OHSHIMA TOHRU

NAGAI KIYOFUMI

MOROHOSHI NAOYA

NAMBA MICHIIKO

Latest standardized assignees - inventors removed

RICOH

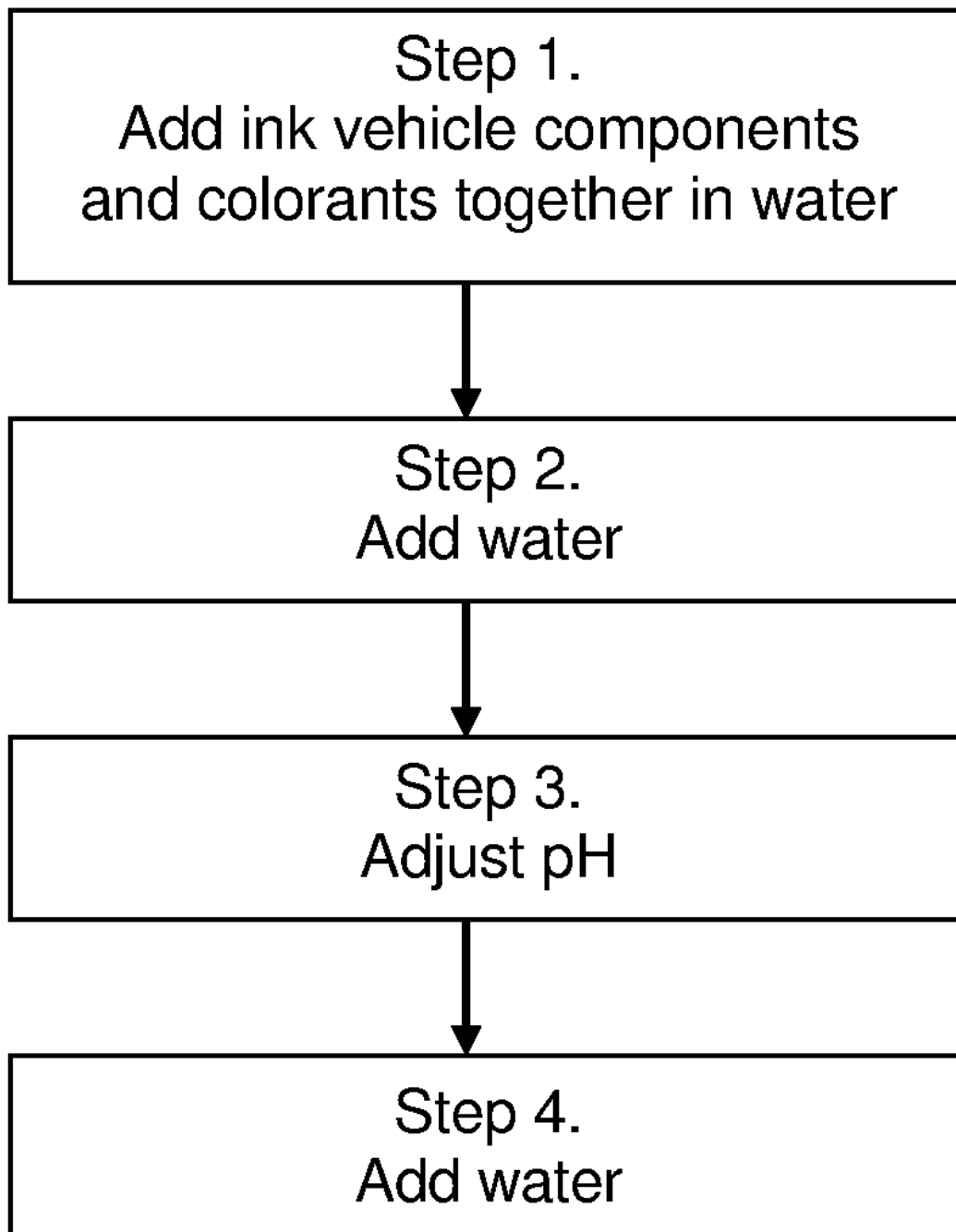
Family 29/30 - FAMPAT - ©Questel

Title

(EP2118211)

Ink-jet ink formulations containing imidazole

Images



Publication data including kind & date

US20080178766	A1	2008-07-31	US20080178766				
WO2008094975	A1	2008-08-07	WO200894975				
CA2677174	A1	2008-08-07	CA2677174				
TW200902643	A	2009-01-16	TW200902643				
EP2118211	A1	2009-11-18	EP2118211				
KR20090122341	A	2009-11-27	KR20090122341				
IN4568/DELNP/2009	A	2009-12-04	IN2009DN04568				
CN101600767	A	2009-12-09	CN101600767				
US7632344	B2	2009-12-15	US7632344				
JP2010516889	A	2010-05-20	JP2010516889				
BRPI0806389	A2	2011-09-06	BR200806389				

EP2118211	A4	2012-05-02	EP2118211				
TWI367921	B	2012-07-11	TWI367921				
CN101600767	B	2012-12-19	CN101600767B				
CA2677174	C	2013-07-16	CA2677174				
EP2118211	B1	2014-06-25	EP2118211				
JP5560043	B2	2014-07-23	JP5560043				
IN271228	B	2016-02-12	IN-271228				
BRPI0806389	B1	2017-05-02	BR200806389				

Abstract

(EP2118211)

An ink for use in combination with an ink-jet **printer** comprises a mixture including a colorant, a liquid vehicle comprising 1,6-hexanediol and 1,5-pentanediol in a ratio in the range of 1:4 (wt/wt) to 4:1 (wt/wt), and/or an amount of imidazole in the range of 0.1 wt% to 6 wt%, and potentially provides at least one of the following enhancements to the ink improved **print** quality, increased decap time, pen reliability, environmental robustness of ink in pen, environmental robustness of **printed** ink on media, and aid in maintaining the pH of the ink in a desired range.

Inventors

MCGORRIN MARLENE

Latest standardized assignees - inventors removed

HEWLETT PACKARD DEVELOPMENT

Family 30/30 - FAMPAT - ©Questel

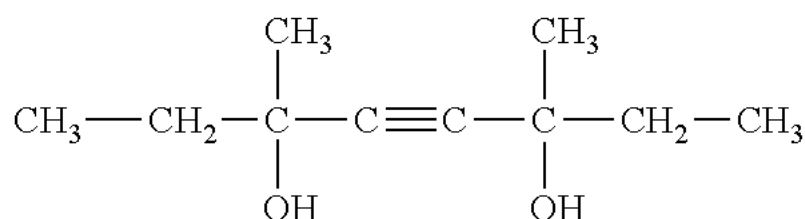
Title

(EP2960304)

Sublimating dye ink for ink jets and dyeing method

Images

[Chemical formula 1]



(I)

Publication data including kind & date

WO2014129322	A1	2014-08-28	WO2014129322				
KR20140143432	A	2014-12-16	KR20140143432				
CN104245861	A	2014-12-24	CN104245861				
US20150116418	A1	2015-04-30	US20150116418				
EP2960304	A1	2015-12-30	EP2960304				
KR101620778	B1	2016-05-12	KR101620778				
US9340694	B2	2016-05-17	US9340694				
JP6010122	B2	2016-10-19	JP6010122				
EP2960304	A4	2016-11-09	EP2960304				
JPWO2014129322	A1	2017-02-02	JP2014129322W				
CN104245861	B	2017-03-08	CN104245861B				

EP2960304

B1 2017-09-20 EP2960304

**Abstract**

(EP2960304)

A sublimating dye ink for ink jets of the present invention contains water, a sublimating dye, a humectant and an anionic polymer dispersant. The anionic polymer dispersant is a styrene-(meth)acrylic acid-based copolymer having an acid value of 160 to 250 mgKOH/g and a weight average molecular weight of 8,000 to 20,000. The ink contains further as a penetrant an acetylene glycol-based compound expressed by a chemical formula (I) below. A sublimation transfer dyeing method of the present invention includes: **inkjet printing** the ink on a sheet recording medium; and superposing a **printed** surface of the recording medium on an object to be dyed, then heating to sublimate-transfer the sublimating dye to the object to be dyed. Thereby, the present invention provides a sublimating dye ink for ink jets containing a sublimating dye, which has high-quality and stable recording performance, maintains the ink storage stability, and at the same time, the ink has a high **print** density on a surface of a recording medium, and reduces environmental pollution during a dyeing process.

Inventors

OURA TADASHI

TANAKA HIROKI

Latest standardized assignees - inventors removed

KIWA CHEMICAL INDUSTRY