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(71) Applicant (for all designated States except US):
L'OREAL [FR/FR]; 14 rue Royale, F-75008 Paris (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DECONINCK, Gautier** [FR/FR]; 17 rue Marcelin Berthelot, F-95210 Saint Gratien (FR). **GOGET, Caroline** [FR/FR]; 3 rue Etienne Jodelle, F-75018 Paris (FR).

(74) Agent: **WATTREMEZ, Catherine**; l'Oréal, D.I.P.I., 25-29 quai Aulagnier, F-92665 Asnières-sur-Seine Cedex (FR).

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(54) Title: DYEING OR LIGHTENING PROCESS AND INVERSE EMULSION FOR TREATING THE HAIR COMPRISING A PARTICULAR SOLVENT

(57) Abstract: One subject of the present invention is a process for dyeing and/or lightening human keratin fibres in which a water-in-oil inverse emulsion is applied to said fibres, said emulsion comprising: (a) at least 30% by weight of one or more liquid fatty substances; (b) one or more polyols or polyol (C₁-C₄)alkyl ethers having a Hansen δ_H parameter value of less than or equal to 25 MPa^{1/2} at 25°C that are different from the liquid fatty substances; and (c) one or more alkalizing agents, in the presence of a composition comprising one or more oxidizing agents and preferably hydrogen peroxide. It furthermore relates to a water-in-oil (W/O) inverse emulsion comprising: (a) at least 30% by weight of one or more liquid fatty substances; (b) one or more polyols or polyol (C₁-C₄)alkyl ethers having a Hansen δ_H parameter value of less than or equal to 25 MPa^{1/2} at 25°C that are different from the liquid fatty substances a); (c) one or more alkalizing agents; and (d) at least one oxidation dye and/or at least one direct dye. Another subject of the invention is constituted of two-compartment devices containing, in one compartment, an emulsion according to the invention and, in the other compartment, a composition comprising one or more oxidizing agents.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 INV. A61K8/06 A61K8/31 A61K8/34 A61K8/41 A61Q5/08
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B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
 EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CHEMICAL ABSTRACTS, vol. 054, no. 02, 25 January 1960 (1960-01-25), Columbus, Ohio, US; abstract no.: 104:135869, Kaneda, Hisashi et al.: "Cosmetic water-in-oil emulsions containing amines", XP002614612 abstract & JP 60 246306 A (SHISEIDO CO LTD) 6 December 1985 (1985-12-06) -----	1-16
A	EP 1 086 687 A2 (BEIERSDORF AG [DE]) 28 March 2001 (2001-03-28) example 4 -----	1-16
Y	EP 0 823 250 A2 (SHISEIDO CO LTD [JP]) 11 February 1998 (1998-02-11) examples 1-5,1-9,12 -----	1-16
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Lenzen, Achim
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 428 509 A1 (OREAL [FR]) 16 June 2004 (2004-06-16) paragraphs [0010], [0013], [0045] - [0049] -----	1-16
Y	EP 1 219 285 A2 (KAO CORP [JP]) 3 July 2002 (2002-07-03) paragraphs [0008], [0014] - [0019] -----	1-16
A	"HANSEN SOLUBILITY PARAMETERS OF SOLVENTS", INDUSTRIAL SOLVENTS HANDBOOK, XX, XX, 1 January 1996 (1996-01-01), pages 35-56, XP000944977, the whole document -----	1-16
A	WO 2008/047055 A2 (OREAL [FR]; DE BONI MAXIME [JP]) 24 April 2008 (2008-04-24) claim 1 -----	1-16
E	EP 2 338 571 A1 (OREAL [FR]) 29 June 2011 (2011-06-29) compositions A1 and A2; paragraph [0234] -----	1-16
E	EP 2 338 572 A1 (OREAL [FR]) 29 June 2011 (2011-06-29) compositions A1 and A2; paragraph [0235] -----	1-16
E	WO 2011/076646 A2 (OREAL [FR]; GOGET CAROLINE [FR]; DECONINCK GAUTIER [FR]) 30 June 2011 (2011-06-30) examples 1,2 -----	1-16
E	WO 2011/076672 A2 (OREAL [FR]; GOGET CAROLINE [FR]; DECONINCK GAUTIER [FR]) 30 June 2011 (2011-06-30) example 1 -----	1-16
E	WO 2011/076647 A2 (OREAL [FR]; ASCIONE JEAN-MARC [FR]; DECONINCK GAUTIER [FR]; GOGET CARO) 30 June 2011 (2011-06-30) page 24, line 30 - line 39 claims 1,19,20 -----	1-16
E	WO 2011/076792 A1 (OREAL [FR]; COTTERET JEAN [FR]; DECONINCK GAUTIER [FR]; GOGET CAROLINE) 30 June 2011 (2011-06-30) example 1 -----	1-16
E	WO 2011/076665 A1 (OREAL [FR]; DECONINCK GAUTIER [FR]; GOGET CAROLINE [FR]; HUCHET ARNAUD) 30 June 2011 (2011-06-30) example 1 -----	1-16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2011/056245

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
EP 1086687	A2	28-03-2001	DE 19945283 A1 EP 1086687 A2	29-03-2001 28-03-2001
EP 0823250	A2	11-02-1998	DE 69635413 D1 DE 69635413 T2 EP 0823250 A2 US 5817155 A	15-12-2005 10-08-2006 11-02-1998 06-10-1998
EP 1428509	A1	16-06-2004	EP 1428509 A1 FR 2848438 A1	16-06-2004 18-06-2004
EP 1219285	A2	03-07-2002	DE 60127521 T2 EP 1219285 A2 US 2002139957 A1	06-12-2007 03-07-2002 03-10-2002
WO 2008047055	A2	24-04-2008	CN 101528192 A EP 2104486 A2 FR 2907005 A1 JP 2010506892 A US 2010306929 A1 WO 2008047055 A2	09-09-2009 30-09-2009 18-04-2008 04-03-2010 09-12-2010 24-04-2008
EP 2338571	A1	29-06-2011	CN 102100641 A EP 2338571 A1 FR 2954121 A1 JP 2011132239 A US 2011146007 A1	22-06-2011 29-06-2011 24-06-2011 07-07-2011 23-06-2011
EP 2338572	A1	29-06-2011	CN 102100643 A EP 2338572 A1 FR 2954127 A1 JP 2011132240 A KR 20110073299 A US 2011155167 A1	22-06-2011 29-06-2011 24-06-2011 07-07-2011 29-06-2011 30-06-2011
WO 2011076646	A2	30-06-2011	NONE	
WO 2011076672	A2	30-06-2011	FR 2954101 A1 WO 2011076672 A2	24-06-2011 30-06-2011
WO 2011076647	A2	30-06-2011	NONE	
WO 2011076792	A1	30-06-2011	FR 2954093 A1 WO 2011076792 A1	24-06-2011 30-06-2011
WO 2011076665	A1	30-06-2011	FR 2954113 A1 WO 2011076665 A1	24-06-2011 30-06-2011