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(54) Title: COMPOSITION FOR DYEING KERATIN FIBRES COMPRISING A DIRECT DYE BEARING A DISULFIDE/THIOL FUNCTION, A SPARINGLY OR NON-ETHOXYLATED FATTY ALCOHOL, A CATIONIC SURFACTANT, AN ALKALINE AGENT AND A REDUCING AGENT

(57) Abstract: The invention relates to a process for dyeing and/or lightening keratin fibres such as the hair, using i) at least one direct dye bearing a disulfide, thiol or protected-thiol function and ii) at least one sparingly or non-ethoxylated fatty alcohol, iii) at least one cationic surfactant, iv) at least one alkaline agent, and v) at least one reducing agent. The invention also relates to a composition comprising the ingredients i) to v), to the use of the combination of i), ii), iii), iv) and v) for the dyeing and/or lightening of keratin fibres, and to a multi-compartment kit comprising the ingredients i) to v). The dyeing process and the composition according to the invention especially afford a long-lasting coloration on keratin fibres, which is strong, chromatic and/or homogeneous, with or without the use of an oxidizing agent.



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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2009/109457 A2 (OREAL [FR]; LAGRANGE ALAIN [FR]) 11 September 2009 (2009-09-11) page 2, lines 16-21; claims; examples page 88, line 30 - page 89, line 7 page 92, lines 10-27 -----	1-24
Y	FR 2 921 256 A1 (OREAL [FR]) 27 March 2009 (2009-03-27) cited in the application page 1, paragraph 5 page 45, last paragraph - page 46, paragraph 2; claims; examples page 48, paragraph 2-3 -----	1-24
X	WO 2005/097051 A2 (CIBA SC HOLDING AG [CH]; ELIU VICTOR PAUL [DE]; FROEHLING BEATE [DE];) 20 October 2005 (2005-10-20) -----	20,24
Y	page 26, paragraph 6 - page 28, paragraph 6; claims; examples -----	1-24
☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2009109457 A2	11-09-2009	EP 2259766 A2 FR 2928087 A1 WO 2009109457 A2	15-12-2010 04-09-2009 11-09-2009
FR 2921256 A1	27-03-2009	EP 2053094 A2 FR 2921256 A1	29-04-2009 27-03-2009
WO 2005097051 A2	20-10-2005	AR 048595 A1 BR PI0508391 A EP 1750663 A2 EP 2075036 A1 GB 2412916 A JP 2007532513 A KR 20070006859 A US 2008295260 A1 WO 2005097051 A2	10-05-2006 25-09-2007 14-02-2007 01-07-2009 12-10-2005 15-11-2007 11-01-2007 04-12-2008 20-10-2005