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(54) Title: COMPOSITION FOR DYEING KERATIN FIBRES COMPRISING A DIRECT DYE BEARING A DISULFIDE/THIOL FUNCTION, A FATTY SUBSTANCE, 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 25% of one or more fatty substances, *iii*) at least one alkaline agent, and *iv*) at least one reducing agent. The invention also relates to a composition comprising the ingredients *i*) to *iv*), to the use of the combination of *i*), *ii*), *iii*) and *iv*) for the dyeing and/or lightening of keratin fibres, and to a multi-compartment kit comprising the ingredients *i*) to *iv*). 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 -----	1-22
Y	FR 2 921 256 A1 (OREAL [FR]) 27 March 2009 (2009-03-27) cited in the application page 45, last paragraph - page 46, paragraph 2; claims; examples page 48, paragraph 2-3 page 1, paragraph 5 -----	1-22
Y	FR 2 940 083 A1 (OREAL [FR]) 25 June 2010 (2010-06-25) page 29, line 18 - page 46, line 31; claims; examples -----	1-22
☐ 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	15-12-2010
		FR 2928087 A1	04-09-2009
		WO 2009109457 A2	11-09-2009

FR 2921256 A1	27-03-2009	EP 2053094 A2	29-04-2009
		FR 2921256 A1	27-03-2009

FR 2940083 A1	25-06-2010	NONE	
