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(54) Title: HAIRDYE COMPOSITION COMPRISING INDOLINE AND/OR AN INDOLINE COMPOUND AND LACCASE

(57) Abstract: A hairdye composition, characterized in that, indoline and/or indoline compound and laccase are compounded.

# INTERNATIONAL SEARCH REPORT

International Application No

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**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A61K7/13

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

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, PAJ, 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.
X	FR 2 694 018 A (OREAL) 28 January 1994 (1994-01-28) page 5, line 24 - line 28 claims 1,2,7-9,12 ----	1,2
X	FR 2 694 021 A (OREAL) 28 January 1994 (1994-01-28) page 5, last line -page 6, line 3; claims 1,13 ----	1,2
P,X	FR 2 773 481 A (OREAL) 16 July 1999 (1999-07-16) claim 1 ----	1,2
E	EP 1 013 260 A (OREAL) 28 June 2000 (2000-06-28) paragraph '0031! - paragraph '0034!; example 2 -----	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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# INTERNATIONAL SEARCH REPORT

information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2694018 A	28-01-1994	NONE	
FR 2694021 A	28-01-1994	NONE	
FR 2773481 A	16-07-1999	AU 1881399 A BR 9814800 A EP 1047381 A WO 9936039 A	02-08-1999 17-10-2000 02-11-2000 22-07-1999
EP 1013260 A	28-06-2000	FR 2787319 A JP 2000191936 A	23-06-2000 11-07-2000