

Title (en)  
OXIDATION DYEING COMPOSITION FOR KERATINOUS FIBRES WITH A PARTICULAR PARAPHENYLENEDIAMINE DERIVATIVE AND A PARTICULAR DIRECT DYEING AGENT

Title (de)  
OXIDATIVES FÄRBEMITTEL FÜR KERATINISCHE FASERN DAS EIN PARAPHENYLENDIAMINDERIVAT UND EINEN DIREKTZIEHENDEN SPEZIFISCHEN FARBSTOFF ENTHÄLT

Title (fr)  
COMPOSITION DE TEINTURE D'OXYDATION DES FIBRES KERATINIQUES AVEC UN DERIVE PARTICULIER DE LA PARAPHENYLENEDIAMINE ET UN COLORANT DIRECT PARTICULIER

Publication  
**EP 1263397 A1 20021211 (FR)**

Application  
**EP 01911846 A 20010305**

Priority  
• FR 0100644 W 20010305  
• FR 0002862 A 20000306

Abstract (en)  
[origin: FR2805741A1] Composition for oxidation dyeing of keratinic fibers comprises at least one developer selected from p-phenylenediamine derivatives (I) and at least one synthetic direct dye selected from azo, quinone, triarylmethane, indoamine or azine dyes and/or a natural colorant. Composition for oxidation dyeing of keratinic fibers comprises: (a) at least one developer selected from p-phenylenediamine derivatives of formula (I); and (b) at least one synthetic direct dye selected from azo, quinone, triarylmethane, indoamine or azine dyes and/or a natural colorant: R1 = CH<sub>2</sub>(CHOH)<sub>4</sub>CH<sub>2</sub>OH or (CH<sub>2</sub>CH<sub>2</sub>O)<sub>p</sub>R<sub>4</sub>: R<sub>2</sub>, R<sub>4</sub> = H, alkyl, aryl or heterocyclyl; p = 2-8; R<sub>3</sub> = halogen, alkyl, aryl, heterocyclyl, heterocyclxyloxy, heterocyclthio, CN, NO<sub>2</sub>, OF, COOH, SO<sub>3</sub>H, alkoxy, aryloxy, cyanoamino, amino, anilino, ureido, sulfamoylamino, mono- or dialkylsulfamoylamino, alkylthio, arylthio, alkoxycarbonylamino, sulfonamido, carbamoyl, mono- or dialkylcarbamoyl, silyl, silyloxy, aryloxycarbonylamino, imido, sulfinyl, phosphonyl, aryloxycarbonyl, acyl or SH, or multiple R<sub>3</sub> groups can form a 3- to 6-membered ring; alkyl = optionally substituted 1-25C linear, branched or cyclic alkyl; alkoxy = 1-25C linear, branched or cyclic alkoxy; aryl = 6-26C aryl optionally substituted by alkyl, substituted alkyl or alkoxy; heterocyclyl = mono- or polycyclic heterocyclyl in which each ring has 3-6 members and can contain one or more heteroatoms; n = 0-4 alternatively: (a) R<sub>1</sub> and R<sub>2</sub> = (CH<sub>2</sub>)<sub>2</sub>CHOHCH<sub>2</sub>OH; or (b) R<sub>1</sub> = alkyl, aryl or heterocyclyl and R<sub>2</sub> = a (CH<sub>2</sub>)<sub>2</sub> or (CH<sub>2</sub>)<sub>3</sub> group (Q) that is attached to a C atom ortho to the NR<sub>1</sub>R<sub>2</sub> group, provided that R<sub>1</sub> or Q is substituted with a N-, O- or S-containing group when R<sub>1</sub> is alkyl or aryl; or (c) NR<sub>1</sub>R<sub>2</sub> is a 5- to 7-membered ring substituted with at least one N-, O- or S-containing group; provided that: (1) the compound contains no more than 3 OH groups when NR<sub>1</sub>R<sub>2</sub> is a ring; (2) when NR<sub>1</sub>R<sub>2</sub> is 2-carbamoyl-1-pyrrolidinyl, then n is nonzero or the pyrrolidine ring has at least 2 substituents; (3) when NR<sub>1</sub>R<sub>2</sub> is 2-hydroxymethyl-1-pyrrolidinyl and n = 0 or 1, then the pyrrolidine ring either has at least 2 additional substituents or has one additional substituent other than 4-OH, or when NR<sub>1</sub>R<sub>2</sub> is 2-hydroxymethyl-1-pyrrolidinyl and n = 1, then R<sub>3</sub> is not alkyl, hydroxyalkyl or polyhydroxyalkyl; (4) when R<sub>2</sub> is Q, then either: (i) the ring formed by Q has a substituent in addition to R<sub>1</sub>; (ii) n is more than 1; (iii) R<sub>3</sub> is aryl or heterocyclyl when n = 1; or (iv) R<sub>1</sub> is aryl, heterocyclyl or substituted alkyl other than monohydroxyalkyl when n = 0 or 1.

IPC 1-7  
**A61K 7/13**

IPC 8 full level  
**A61K 8/00** (2006.01); **A61K 8/22** (2006.01); **A61K 8/33** (2006.01); **A61K 8/41** (2006.01); **A61K 8/42** (2006.01); **A61K 8/49** (2006.01); **A61K 8/66** (2006.01); **A61K 8/89** (2006.01); **A61K 8/891** (2006.01); **A61K 8/97** (2006.01); **A61K 8/98** (2006.01); **A61Q 5/10** (2006.01)

CPC (source: EP US)  
**A61K 8/411** (2013.01 - EP US); **A61K 8/49** (2013.01 - EP US); **A61K 8/4913** (2013.01 - EP US); **A61K 8/492** (2013.01 - EP US); **A61K 8/4926** (2013.01 - EP US); **A61Q 5/10** (2013.01 - EP US)

Citation (search report)  
See references of WO 0166068A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**FR 2805741 A1 20010907**; **FR 2805741 B1 20030620**; AU 4076801 A 20010917; BR 0109021 A 20021126; CA 2400456 A1 20010913; EP 1263397 A1 20021211; JP 2003528053 A 20030924; US 2003159221 A1 20030828; WO 0166068 A1 20010913

DOCDB simple family (application)  
**FR 0002862 A 20000306**; AU 4076801 A 20010305; BR 0109021 A 20010305; CA 2400456 A 20010305; EP 01911846 A 20010305; FR 0100644 W 20010305; JP 2001564721 A 20010305; US 33366303 A 20030410