

Title (en)
ARYLOXY-POLY(OXYALKYLENE) NAPHTHALIMIDE DERIVATIVE COLORANTS

Title (de)
ARYLOXY-POLY(OXYALKYLEN)NAPHTHALIMID-DERIVATE ALS FÄRBEMITTEL

Title (fr)
COLORANTS DERIVES D'ARYLOXY-POLY(OXYALKYLENE) NAPHTALIMIDES

Publication
EP 1149081 A1 20011031 (EN)

Application
EP 99973669 A 19991117

Priority
• US 9926228 W 19991117
• US 24158099 A 19990202
• US 24305699 A 19990202

Abstract (en)
[origin: WO0046205A1] This invention relates to colorants comprising naphthalimide base groups with specific water-solubilizing pendant moieties attached. These pendant moieties are based upon aryloxy-poly(oxyalkylene) groups which provide the desired solubility to the naphthalimide colorant compound, wherein the term aryloxy-poly(oxyalkylene) is intended to denote the direct bonding of the aryl group to the naphthalimide nitrogen. Furthermore, the aryloxy-poly(oxyalkylene) groups facilitate the further addition of other pendant groups to the base compound which increase or decrease the solubility of the resultant naphthalimide derivative colorant as well. Such modified naphthalimides are useful as fluorescent colorants, particularly within other liquid media (both aqueous and non-aqueous) without the necessary inclusion of surfactants, solvents, diluents, and the like. Methods of making such colorants, as well as the aryloxy-poly(oxyalkylene) intermediates, are also contemplated within this invention.

IPC 1-7
C07D 221/04

IPC 8 full level
C07D 221/14 (2006.01); **C09B 57/08** (2006.01); **C09K 11/06** (2006.01); **C11D 3/40** (2006.01)

CPC (source: EP KR)
C09B 57/08 (2013.01 - EP KR); **C11D 3/40** (2013.01 - EP KR)

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

DOCDB simple family (publication)
WO 0046205 A1 20000810; AU 1470300 A 20000825; EP 1149081 A1 20011031; EP 1149081 A4 20020529; JP 2002536464 A 20021029; JP 3993747 B2 20071017; KR 100582321 B1 20060522; KR 20010101949 A 20011115

DOCDB simple family (application)
US 9926228 W 19991117; AU 1470300 A 19991117; EP 99973669 A 19991117; JP 2000597275 A 19991117; KR 20017009770 A 20010802