

Title (en)
Fluorescent Whitening Compositions

Title (de)
Fluoreszierende Aufhellerzusammensetzung

Title (fr)
Composition de blanchiment fluorescent

Publication
EP 1881108 A1 20080123 (EN)

Application
EP 06117354 A 20060718

Priority
EP 06117354 A 20060718

Abstract (en)
The present invention relates to a composition for the fluorescent whitening of paper comprising a) a bis-triazinylamino stilbene of the formula in which R 1 , R 2 , R 3 and R 4 each, independently, represent -NH 2 , -OC 1 -C 4 alkyl, -Oaryl, -NHC 1 -C 4 alkyl, -N(C 1 -C 4 alkyl) 2 , -N(C 1 -C 4 alkyl)(C 1 -C 4 hydroxyalkyl), -NHC 1 -C 4 hydroxyalkyl, -N(C 1 -C 4 hydroxyalkyl) 2 , or-NHaryl, whereby aryl is phenyl, which may be unsubstituted or substituted by one or two sulphonic acid groups, -COOH, -COOC 1 -C 4 alkyl, -CONH 2 , -CONHC 1 -C 4 alkyl or by -CON(C 1 -C 4 alkyl) 2 , a morpholino, piperidino or pyrrolidino residue, -SC 1 -C 4 alkyl or aryl, or an amino acid or amino acid amide residue from which a hydrogen atom has been abstracted from the amino group and M represents hydrogen, an alkaline or alkaline earth metal, ammonium or ammonium that is mono-, di-, tri- or tetrasubstituted by C 1 -C 4 alkyl or C 2 -C 4 hydroxyalkyl or a distyryl biphenyl fluorescent whitening agent (FWA) of the formula in which R 5 represents hydrogen, chlorine or C 1 -C 4 alkoxy and M is as defined above, or mixtures of (1) and (2), b) water and, optionally, c) one or more auxiliaries, characterized in that the pH of the composition lies within the range of from 10 to 13, size or film press liquors and coating colours containing the composition and use and process for application of the composition to paper.

IPC 8 full level
D21H 21/30 (2006.01)

CPC (source: EP)
D21H 21/30 (2013.01); **D21H 19/44** (2013.01); **D21H 21/16** (2013.01)

Citation (search report)
• [X] GB 2277749 A 19941109 - CIBA GEIGY AG [CH]
• [X] EP 1355004 A1 20031022 - BAYER AG [DE]
• [A] US 2001014989 A1 20010823 - ROHRINGER PETER [CH], et al
• [A] EP 0884312 A1 19981216 - CIBA GEIGY AG [CH]
• [E] EP 1712677 A1 20061018 - CLARIANT INT LTD [CH]

Cited by
US2015123037A1; US9181656B2; EP2447336A1; FR2966467A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1881108 A1 20080123

DOCDB simple family (application)
EP 06117354 A 20060718