

Title (en)  
A COMPOSITION FOR THE FLUORESCENT WHITENING OF PAPER

Title (de)  
OPTISCHER AUFHELLER FÜR PAPIER

Title (fr)  
COMPOSITION DE BLANCHIMENT FLUORESCENT DU PAPIER

Publication  
**EP 1392925 A1 20040303 (EN)**

Application  
**EP 02750970 A 20020523**

Priority  

- EP 02750970 A 20020523
- EP 0205668 W 20020523
- EP 01810521 A 20010529

Abstract (en)  
[origin: WO02097193A1] A composition comprising a) 5 to 25 % by weight of a fluorescent whitening agent of the formula (1), wherein R1 and R2 independently represent C1-C4alkyl, C2-C4hydroxyalkyl or together complete a morpholine ring and M is an alkaline or alkaline earth metal, b) 0.5 to 5 % by weight of a swellable layered silicate which is hectorite and/or vermiculite, c) water and, optionally, d) further adjuvants and the use thereof for the fluorescent whitening of paper in the pulp mass, in coatings or in the size press or metering size press.

IPC 1-7  
**D21H 21/30**; **D21H 17/68**; **D21H 17/74**

IPC 8 full level  
**D21H 21/30** (2006.01); **D21H 17/68** (2006.01); **D21H 17/70** (2006.01); **D21H 21/10** (2006.01)

CPC (source: EP US)  
**D21H 21/30** (2013.01 - EP US); **D21H 17/68** (2013.01 - EP US); **D21H 21/10** (2013.01 - EP US)

Citation (search report)  
See references of WO 02097193A1

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)  
**WO 02097193 A1 20021205**; AR 033770 A1 20040107; EP 1392925 A1 20040303; US 2004149410 A1 20040805

DOCDB simple family (application)  
**EP 0205668 W 20020523**; AR P020101970 A 20020527; EP 02750970 A 20020523; US 47872803 A 20031124