

Title (en)  
INTENSIFICATION OF THE CLEANING POWER OF DETERGENTS USING A CELLULOSE DERIVATIVE AND A HYGROSCOPIC POLYMER

Title (de)  
VERSTÄRKUNG DER REINIGUNGSLEISTUNG VON WASCHMITTELN DURCH CELLULOSEDERIVAT UND HYGROSKOPISCHES POLYMER

Title (fr)  
AUGMENTATION DE LA PUISSANCE DE NETTOYAGE DE PRODUITS DE LAVAGE A L'AIDE D'UN DERIVE CELLULOSIQUE ET D'UN POLYMERE HYGROSCOPIQUE

Publication  
**EP 1592765 A1 20051109 (DE)**

Application  
**EP 04707142 A 20040131**

Priority  
• EP 2004000870 W 20040131  
• DE 10305306 A 20030210  
• DE 10351324 A 20031031

Abstract (en)  
[origin: WO2004069973A1] The aim of the invention is to improve the dirt dissolving action of non-ionic cellulose derivatives in detergents. This is achieved by a combination of a cellulose derivative with dirt dissolving properties, obtained by the alkylation and hydroxyalkylation of cellulose and a hygroscopic polymer.

IPC 1-7  
**C11D 3/22**; **C11D 11/00**

IPC 8 full level  
**C11D 3/00** (2006.01); **C11D 3/22** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **D06M 15/09** (2006.01)

CPC (source: EP US)  
**C11D 3/0036** (2013.01 - EP US); **C11D 3/225** (2013.01 - EP US); **C11D 11/00** (2013.01 - EP US); **C11D 17/0039** (2013.01 - EP US); **D06M 15/09** (2013.01 - EP US); **D06M 2200/00** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004069973A1

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

DOCDB simple family (publication)  
**WO 2004069973 A1 20040819**; AT E363525 T1 20070615; DE 502004003950 D1 20070712; EP 1592765 A1 20051109; EP 1592765 B1 20070530; ES 2286602 T3 20071201; JP 2006517244 A 20060720; US 2006046950 A1 20060302

DOCDB simple family (application)  
**EP 2004000870 W 20040131**; AT 04707142 T 20040131; DE 502004003950 T 20040131; EP 04707142 A 20040131; ES 04707142 T 20040131; JP 2006501675 A 20040131; US 20075005 A 20050810