

Title (en)  
LAUNDRY DETERGENT COMPOSITIONS WITH CELLULOSIC POLYMERS TO PROVIDE APPEARANCE AND INTEGRITY BENEFITS TO FABRICS LAUNDERED THEREWITH

Title (de)  
WASCHMITTELZUSAMMENSETZUNGEN ENTHALTEND ZELLULOSEPOLYMERE

Title (fr)  
COMPOSITIONS DETERGENTES POUR LESSIVES, RENFERMANT DES POLYMERES CELLULOSIQUES DESTINES A AMELIORER L'ASPECT ET L'INTEGRITE DES TISSUS LAVES AVEC CES COMPOSITIONS

Publication  
**EP 0948591 B1 20030716 (EN)**

Application  
**EP 97953405 A 19971223**

Priority  
• US 9723771 W 19971223  
• US 3393096 P 19961226

Abstract (en)  
[origin: WO9829528A2] Disclosed are detergent compositions and methods which utilize certain modified cellulose ethers as fabric treatment agents that can impart fabric appearance and integrity benefits to fabrics and textiles laundered in washing solutions which contain such agents. Such modified cellulose ether fabric treatment agents are those having selected types and amounts of anhydroglucose ring substituents in order to render them nonionic, cationic or anionic in nature.

IPC 1-7  
**C11D 3/22; C11D 3/382**

IPC 8 full level  
**C11D 3/37** (2006.01); **C11D 1/86** (2006.01); **C11D 3/22** (2006.01); **C11D 1/14** (2006.01); **C11D 1/22** (2006.01); **C11D 1/29** (2006.01); **C11D 1/52** (2006.01); **C11D 1/72** (2006.01)

CPC (source: EP)  
**C11D 1/86** (2013.01); **C11D 3/223** (2013.01); **C11D 3/225** (2013.01); **C11D 3/227** (2013.01); **C11D 1/146** (2013.01); **C11D 1/22** (2013.01); **C11D 1/29** (2013.01); **C11D 1/525** (2013.01); **C11D 1/72** (2013.01)

Cited by  
DE102004063766A1; DE102007038456A1; DE102007023827A1

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

DOCDB simple family (publication)  
**WO 9829528 A2 19980709; WO 9829528 A3 19980917**; AR 010851 A1 20000712; AT E245184 T1 20030815; BR 9714097 A 20000321; CA 2276188 A1 19980709; CA 2276188 C 20051101; CN 1213137 C 20050803; CN 1247558 A 20000315; DE 69723575 D1 20030821; DE 69723575 T2 20040513; EP 0948591 A2 19991013; EP 0948591 B1 20030716; ES 2203830 T3 20040416; JP 2001507396 A 20010605; JP 4267075 B2 20090527

DOCDB simple family (application)  
**US 9723771 W 19971223**; AR P970106137 A 19971223; AT 97953405 T 19971223; BR 9714097 A 19971223; CA 2276188 A 19971223; CN 97181945 A 19971223; DE 69723575 T 19971223; EP 97953405 A 19971223; ES 97953405 T 19971223; JP 53016998 A 19971223