

Title (en)  
CATIONIC CELLULOSIC FIBRES

Title (de)  
KATIONISCHE CELLULOSEFASER

Title (fr)  
FIBRES CATIONIQUES CELLULOSIQUES

Publication  
**EP 1404921 A1 20040407 (EN)**

Application  
**EP 02746207 A 20020711**

Priority  

- EP 02746207 A 20020711
- EP 01202667 A 20010711
- EP 01205070 A 20011221
- NL 0200458 W 20020711

Abstract (en)  
[origin: WO03006739A1] A cationic cellulosic fibre containing between 1 and 30 cationic groups and between 0.1 and 20 aldehyde groups per 100 anhydroglucose units is a suitable basis for producing paper and tissue products without the necessity of using non-biodegradable cationic polymers as wet strength additives. The cationic cellulosic fibre can be obtained by oxidation of the fibre to introduce aldehyde groups, followed by reaction of part of the aldehyde groups with a nitrogen-containing reagent such as betaine hydrazide hydrochloride. The fibre is advantageously combined with an anionic polymer such as monoaldehyde carboxyl-starch or with anionic cyclodextrin.

IPC 1-7  
**D21H 11/22**; **D21C 9/00**; **C08B 15/06**

IPC 8 full level  
**C08B 15/06** (2006.01); **C08B 37/16** (2006.01); **D06M 13/00** (2006.01); **D06M 15/03** (2006.01); **D21C 9/00** (2006.01); **D21H 11/22** (2006.01)

CPC (source: EP)  
**C08B 37/0012** (2013.01); **D06M 13/005** (2013.01); **D06M 15/03** (2013.01); **D21C 9/005** (2013.01); **D21H 11/22** (2013.01)

Citation (search report)  
See references of WO 03006739A1

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

DOCDB simple family (publication)  
**WO 03006739 A1 20030123**; EP 1404921 A1 20040407

DOCDB simple family (application)  
**NL 0200458 W 20020711**; EP 02746207 A 20020711