

Title (en)  
METHOD OF ADSORPTION OF CATIONIC AND ANIONIC POLYMERS ON THE SURFACE OF PARTICLES AND PAPER OR NONWOVEN PRODUCT CONTAINING SUCH PARTICLES

Title (de)  
VERFAHREN ZUR ADSORPTION VON KATIONISCHEN UND ANIONISCHEN POLYMEREN AUF DIE OBERFLÄCHE VON PARTIKELN UND SOLCHE PARTIKEL ENTHALTENDES PAPIER- ODER VLIESSTOFFPRODUKT

Title (fr)  
PROCEDE D'ADSORPTION DE POLYMERES CATIONIQUES ET ANIONIQUES SUR LA SURFACE DE PARTICULES ET PRODUIT PAPIER OU NON TISSE CONTENANT DE TELLES PARTICULES

Publication  
**EP 1282741 B1 20040218 (EN)**

Application  
**EP 01916028 A 20010322**

Priority  
• SE 0100612 W 20010322  
• SE 0001268 A 20000406

Abstract (en)  
[origin: WO0177437A1] Method of producing a particle or group of particles intended for use in paper- and/or nonwovenmaking and having a coating of at least two, preferably at least three, outside each other located thin layers of alternating cationic and anionic polymers, at which the particle or group of particles is treated in consecutive steps with solutions of the alternating cationic and anionic polymers. The amount of the respective polymer to be added in each step is controlled by charge measurements of the treatment solution or a liquid containing the particles or group of particles and the polymer solution, after the treatment in each step in order to determine that substantially all polymer is adsorbed to the particle surface. It is also referred to a paper- or nonwoven product containing fibres and/or fillers produced according to the method. It is further referred to paper products containing increased amounts of wet strength agent and to tissue paper having improved wet strength.

IPC 1-7  
**D21H 21/18**; **D21H 23/10**; **D21H 27/00**

IPC 8 full level  
**D21H 21/20** (2006.01); **D21H 23/10** (2006.01); **D21H 17/37** (2006.01); **D21H 17/55** (2006.01)

CPC (source: EP)  
**D21H 21/20** (2013.01); **D21H 23/10** (2013.01); **D21H 17/375** (2013.01); **D21H 17/55** (2013.01)

Cited by  
CN102242524A; US8163134B2

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 0177437 A1 20011018**; AT E259917 T1 20040315; AU 4297101 A 20011023; BR 0109841 A 20030603; CN 1422347 A 20030604; DE 60102082 D1 20040325; DE 60102082 T2 20041223; EP 1282741 A1 20030212; EP 1282741 B1 20040218; ES 2215887 T3 20041016; HU P0300410 A2 20030628; MX PA02009106 A 20030312; PL 357809 A1 20040726; RU 2002129503 A 20040327; SE 0001268 D0 20000406; SE 0001268 L 20011007; SK 14682002 A3 20030401

DOCDB simple family (application)  
**SE 0100612 W 20010322**; AT 01916028 T 20010322; AU 4297101 A 20010322; BR 0109841 A 20010322; CN 01807635 A 20010322; DE 60102082 T 20010322; EP 01916028 A 20010322; ES 01916028 T 20010322; HU P0300410 A 20010322; MX PA02009106 A 20010322; PL 35780901 A 20010322; RU 2002129503 A 20010322; SE 0001268 A 20000406; SK 14682002 A 20010322