

Title (en)  
PROCESS FOR PROVIDING FIBRES OR NONWOVENS WITH A HYDROPHILIC COATING

Title (de)  
VERFAHREN ZUR HYDROPHILEN AUSRÜSTUNG VON FASERN ODER VLIESTOFFEN

Title (fr)  
PROCEDE POUR MUNIR DES FIBRES OU DES NON TISSES D'UN REVETEMENT HYDROPHILE

Publication  
**EP 0914513 B1 20011017 (DE)**

Application  
**EP 97931816 A 19970715**

Priority  
• DE 19629666 A 19960723  
• EP 9703784 W 19970715

Abstract (en)  
[origin: US6177367B1] A process for making synthetic fibers or nonwoven substrates hydrophilic made from the synthetic fibers comprising applying an effective amount of a finish composition onto the fibers or nonwoven substrates, the finish composition containing: (a) from 50 to 95% by weight of a hydrophobicizing agent selected from the group consisting of at least one quaternary ester amine salt corresponding to formula I:wherein R1 is an aliphatic alkyl group containing from 12 to 22 carbon atoms, R2 is either (CH2)n-O-COR1 or an alkyl group containing from 12 to 22 carbon atoms, R3 and R4, independently of one another, represent (CH2)n-R5, where R5 is H or OH and n is a number from 1 to 3, and X is either a halide, methosulfate, methophosphate or phosphate ion, a quaternary ester amine salt corresponding to formula II:wherein COR6 is an aliphatic acyl group containing from 12 to 22 carbon atoms and 0, 1, 2 or 3 double bonds, R7 is H or OH, n has a value of 1, 2 or 3 and X is either a halide, methosulfate, methophosphate or phosphate ion, and mixtures thereof; and (b) from 5 to 50% by weight of at least one alkyl glycoside corresponding to formula III:wherein R is a primary linear or methyl-branched aliphatic radical containing from 8 to 22 carbon atoms, G is a glycoside unit containing 5 or 6 carbon atoms and x is a number from 1 to 10, all weights being based on the total weight of the composition.

IPC 1-7  
**D06M 13/148**; **D06M 15/03**; **D06M 13/463**

IPC 8 full level  
**D04H 1/42** (2012.01); **D04H 1/4291** (2012.01); **D04H 1/435** (2012.01); **D06M 13/148** (2006.01); **D06M 13/463** (2006.01); **D06M 15/03** (2006.01)

CPC (source: EP KR US)  
**D04H 1/4291** (2013.01 - EP US); **D04H 1/435** (2013.01 - EP US); **D04H 1/43825** (2020.05 - EP US); **D06M 13/148** (2013.01 - EP US); **D06M 13/463** (2013.01 - EP US); **D06M 15/00** (2013.01 - KR); **D06M 15/03** (2013.01 - EP US); **D06M 2101/18** (2013.01 - EP US); **D06M 2101/32** (2013.01 - EP US); **D06M 2200/00** (2013.01 - EP US); **Y10T 428/2933** (2015.01 - EP US); **Y10T 428/2971** (2015.01 - EP US); **Y10T 442/2484** (2015.04 - EP US)

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

DOCDB simple family (publication)  
**US 6177367 B1 20010123**; AT E207151 T1 20011115; DE 19629666 A1 19980129; DE 59704991 D1 20011122; EP 0914513 A1 19990512; EP 0914513 B1 20011017; ES 2166091 T3 20020401; KR 20000067897 A 20001125; WO 9803717 A1 19980129

DOCDB simple family (application)  
**US 23025099 A 19990525**; AT 97931816 T 19970715; DE 19629666 A 19960723; DE 59704991 T 19970715; EP 9703784 W 19970715; EP 97931816 A 19970715; ES 97931816 T 19970715; KR 19997000347 A 19990118