

Title (en)  
METHOD FOR PRODUCING A REINFORCED FIBER COMPOSITE

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES VERFESTIGTEN FASERVERBUNDES

Title (fr)  
PROCEDE DE FABRICATION D'UNE NAPPE DE FIBRES RENFORCEE

Publication  
**EP 0901533 B1 20000913 (DE)**

Application  
**EP 98903942 A 19980225**

Priority

- AT 9800040 W 19980225
- AT 31997 A 19970225

Abstract (en)  
[origin: WO9838373A1] The invention relates to a method for producing a reinforced fiber composite which contains cellulosic fibers, the cellulose being present in the crystalline structure cellulose II, by bringing said fiber composite into contact with an aqueous solution of N-methylmorpholin-N-oxide (NMMO) at an elevated temperature and subsequently washing said fiber composite. Said method is characterized in that the fiber composite is brought into contact with the aqueous solution in such a way that the relationship  $-947 + 0.30 \times \log(10)t + 0.046 \times T - 3.53 \times C + 645 \times \log(10)C$  where  $t$  is the time in minutes during which the fiber composite is kept in contact with the aqueous NMMO solution,  $T$  is the temperature of the aqueous NMMO solution in DEG C and  $C$  is the concentration of the NMMO in % mass in relation to the aqueous NMMO solution, gives a figure in the region of 0.30 and 1.70 on the condition that the temperature  $T$  is less than 130 DEG C and the concentration  $C$  lies in the region of 70 to 84 % mass.

IPC 1-7  
**D06M 13/388**; **D04H 1/64**

IPC 8 full level  
**D06M 11/00** (2006.01); **D04H 1/425** (2012.01); **D04H 1/587** (2012.01); **D04H 1/645** (2012.01); **D06M 13/02** (2006.01); **D06M 13/322** (2006.01); **D06M 13/388** (2006.01); **D06M 23/00** (2006.01); **D06M 23/10** (2006.01); **D04H 1/64** (2012.01); **D21H 21/18** (2006.01)

CPC (source: EP)  
**D04H 1/425** (2013.01); **D04H 1/587** (2013.01); **D04H 1/645** (2013.01); **D06M 13/388** (2013.01); **D06M 23/10** (2013.01); **D06M 2101/06** (2013.01)

Cited by  
DE202015102564U1; EP2363108A1

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

DOCDB simple family (publication)  
**WO 9838373 A1 19980903**; AT 404368 B 19981125; AT A31997 A 19980315; AT E196329 T1 20000915; AU 6200198 A 19980918; AU 727252 B2 20001207; BR 9805914 A 19990824; CA 2251728 A1 19980903; CN 1105798 C 20030416; CN 1224474 A 19990728; DE 59800265 D1 20001019; EP 0901533 A1 19990317; EP 0901533 B1 20000913; ES 2152745 T3 20010201; ID 20258 A 19981112; JP 2000509771 A 20000802; NO 310205 B1 20010605; NO 984883 D0 19981020; NO 984883 L 19981020

DOCDB simple family (application)  
**AT 9800040 W 19980225**; AT 31997 A 19970225; AT 98903942 T 19980225; AU 6200198 A 19980225; BR 9805914 A 19980225; CA 2251728 A 19980225; CN 98800507 A 19980225; DE 59800265 T 19980225; EP 98903942 A 19980225; ES 98903942 T 19980225; ID 980103 A 19980225; JP 53705898 A 19980225; NO 984883 A 19981020