

Title (en)  
METHOD FOR PRODUCING NANO- AND MESOPOLYMER FIBERS BY ELECTROSPINNING POLYELECTROLYTES OF OPPOSITE CHARGE

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON NANO- UND MESOPOLYMERFASERN DURCH ELEKTROSPINNEN VON POLYELEKTROLYTEN GEGENSÄTZLICHER LADUNG

Title (fr)  
PROCÉDÉ DE FABRICATION DE FIBRES NANO- ET MÉSOPOLYMÈRES PAR ÉLECTROFILAGE DE POLYÉLECTROLYTES DE CHARGES OPPOSÉES

Publication  
**EP 2084312 A2 20090805 (DE)**

Application  
**EP 07817714 A 20071022**

Priority  
• DE 2007001880 W 20071022  
• DE 102006050279 A 20061023

Abstract (en)  
[origin: DE102006050279A1] Production of polymer fibers (A) involves electro-spinning of an aqueous solution containing oppositely charged polyelectrolytes (I). Independent claims are included for: (1) the fibers (A) obtained by the process, specifically having a diameter of 10 nm bis 0.01-50 (especially 0.1-1)  $\mu\text{m}$  and a length of at least 50  $\mu\text{m}$ ; (2) an aqueous solution containing oppositely charged (I), plus at least 0.5 wt. % (based on the overall solution) of a water-soluble polymer (II) of water solubility at least 0.1 wt. % and at least one nonionic surfactant (III); and (3) the use of (III) in the production of polyelectrolyte complex fibers by electrospinning.

IPC 8 full level  
**D01D 5/00** (2006.01); **D01F 6/44** (2006.01)

CPC (source: EP)  
**D01D 5/0038** (2013.01); **D01F 6/44** (2013.01); **D01F 6/88** (2013.01)

Citation (search report)  
See references of WO 2008049397A2

Cited by  
CN108796825A

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102006050279 A1 20080430**; EP 2084312 A2 20090805; EP 2084312 B1 20140625; WO 2008049397 A2 20080502; WO 2008049397 A3 20081120

DOCDB simple family (application)  
**DE 102006050279 A 20061023**; DE 2007001880 W 20071022; EP 07817714 A 20071022