

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 B1 20140625 (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 (examination)  
WO 0155486 A1 20010802 - HARTMANN PAUL AG [DE], et al

Cited by  
CN108796825A

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DOCDB simple family (publication)  
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