

Title (en)

HYDRODYNAMIC ELECTROPROCESSING OF SOLUBLE CONDUCTING POLYMERS

Title (de)

HYDRODYNAMISCHE ELEKTROCHEMISCHE POLYMERISATION VON LÖSLICHEN LEITFÄHIGEN POLYMEREN

Title (fr)

POLYMERISATION ELECTROCHIMIQUE HYDRODYNAMIQUE DE POLYMERES ELECTROCONDUCTEURS SOLUBLES

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Application

EP 98905152 A 19980227

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Abstract (en)

[origin: WO9838224A1] The present invention provides a process for preparing a soluble conductive polymer comprising the step of electrochemically polymerising a monomer and/or an oligomer, or two or more different monomers and/or oligomers, or derivatives thereof, in an electrolytic cell comprising monomer and/or oligomer solution, an electrolyte and an electrode assembly, wherein the monomer and/or oligomer solution is in a hydrodynamic relationship with respect to said electrode assembly. Also provided is an electrochemical cell and an apparatus for hydrodynamic processing of soluble electroconductive polymers as well as soluble conductive polymers prepared by the process disclosed herein.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

C08G 61/124 (2013.01)

Citation (search report)

- [A] GB 2134125 A 19840808 - LUBRIZOL ENTERPRISES INC
- [A] EP 0229993 A2 19870729 - POLAROID CORP [US]
- [X] ZHOU D ET AL: "Electrochemically controlled transport in a dual conducting polymer membrane system", JOURNAL OF MEMBRANE SCIENCE,NL,ELSEVIER SCIENTIFIC PUBL.COMPANY. AMSTERDAM, vol. 98, no. 1, 13 January 1995 (1995-01-13), pages 173 - 176, XP004041489, ISSN: 0376-7388
- [A] ZHAO H ET AL: "EFFECT OF THE COUNTERION EMPLOYED DURING SYNTHESIS ON THE PROPERTIES OF POLYPYRROLE MEMBRANES", JOURNAL OF MEMBRANE SCIENCE,NL,ELSEVIER SCIENTIFIC PUBL.COMPANY. AMSTERDAM, vol. 87, no. 1/02, 23 February 1994 (1994-02-23), pages 47 - 56, XP000492307, ISSN: 0376-7388
- See references of WO 9838224A1

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