

Title (en)  
POLYAZIRIDINE POLYMERS AS LUBRICATING OIL ADDITIVES

Title (de)  
POLYAZIRIDINPOLYMERE ALS SCHMIERÖLADDITIVE

Title (fr)  
POLYMÈRES DE POLYAZIRIDINE EN TANT QU'ADDITIFS D'HUILE LUBRIFIANTE

Publication  
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Application  
**EP 19174838 A 20190516**

Priority  
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Abstract (en)  
The invention relates to a lubricating oil composition comprising a polyaziridine polymer, a process for preparing such lubricating oil composition and the use thereof as a lubricating oil additive for reducing friction in a transmission fluid, an engine oil formulation, a gear oil formulation, an axle fluid or in a hydraulic fluid.

IPC 8 full level  
**C10M 151/04** (2006.01)

CPC (source: CN EP)  
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Citation (applicant)  

- "Chemistry and Technology of Lubricants", 2010, SPRINGER SCIENCE+BUSINESS MEDIA B.V.
- "Polym. Chem.", vol. 8, 2017, article "The living anionic polymerization of activated aziridines: a systematic study of reaction conditions and kinetics", pages: 2824 - 2832
- "Multihydroxy Polyamines by Living Anionic Polymerization of Aziridines", ACS MACRO LETT., vol. 5, 2016, pages 195 - 198
- "Organocatalytic Ring-Opening Polymerization of N-Tosyl Aziridines by a N-Heterocyclic Carbene", CHEM. COMMUN., vol. 72, 2016, pages 9719 - 9722
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Citation (search report)  

- [A] EP 3257921 A1 20171220 - INFINEUM INT LTD [GB]
- [A] XIN WANG ET AL: "Organocatalyzed Anionic Ring-Opening Polymerizations of N -Sulfonyl Aziridines with Organic Superbases", ACS MACRO LETTERS, vol. 6, no. 12, 14 November 2017 (2017-11-14), pages 1331 - 1336, XP055634449, ISSN: 2161-1653, DOI: 10.1021/acsmacrolett.7b00775

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