

Title (en)
USE OF HYDROGENATED DIENE STYRENE POLYMER TO REDUCE PARTICULATE EMISSIONS

Title (de)
VERWENDUNG VON HYDRIERTEM DIEN-STYROLPOLYMER ZUR VERRINGERUNG VON PARTIKELEMISSIONEN

Title (fr)
UTILISATION DE POLYMÈRE STYRÈNE DIÈNE HYDROGÉNÉ POUR RÉDUIRE LES ÉMISSIONS DE PARTICULES

Publication
EP 4127113 A1 20230208 (FR)

Application
EP 21714145 A 20210323

Priority

- FR 2002902 A 20200325
- EP 2021057439 W 20210323

Abstract (en)
[origin: WO2021191210A1] The application relates to the use of a lubricant composition containing a base oil and a hydrogenated diene styrene polymer, for reducing engine particulate emissions.

IPC 8 full level
C10M 143/10 (2006.01); **C10L 1/04** (2006.01); **C10M 143/12** (2006.01); **C10M 171/06** (2006.01); **C10N 20/00** (2006.01); **C10N 40/25** (2006.01); **C10N 60/02** (2006.01)

CPC (source: EP KR US)
C10L 1/00 (2013.01 - EP); **C10L 1/04** (2013.01 - EP KR); **C10M 143/10** (2013.01 - US); **C10M 143/12** (2013.01 - EP KR US); **C10M 169/041** (2013.01 - US); **C10M 2205/04** (2013.01 - EP KR US); **C10M 2205/06** (2013.01 - EP KR US); **C10N 2020/06** (2013.01 - US); **C10N 2020/073** (2020.05 - EP KR US); **C10N 2030/02** (2013.01 - EP KR); **C10N 2030/50** (2020.05 - EP KR US); **C10N 2030/54** (2020.05 - US); **C10N 2030/74** (2020.05 - EP KR); **C10N 2040/25** (2013.01 - EP KR US); **C10N 2060/02** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2021191210A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2021191210 A1 20210930; CN 115335496 A 20221111; CN 115335496 B 20230804; EP 4127113 A1 20230208; FR 3108620 A1 20211001; FR 3108620 B1 20220909; JP 2023518480 A 20230501; KR 20220153648 A 20221118; US 2023141132 A1 20230511

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EP 2021057439 W 20210323; CN 202180023945 A 20210323; EP 21714145 A 20210323; FR 2002902 A 20200325; JP 2022557068 A 20210323; KR 20227036748 A 20210323; US 202117913607 A 20210323