

Title (en)
Use of an additive for lead-free, spark-ignited internal combustion engine fuels for reducing valve seat recession.

Title (de)
Verwendung eines Additivs für unverbleite Ottokraftstoffe zur Verhinderung von Ventilsitzverschleiss.

Title (fr)
Utilisation d'un additif pour combustibles sans plomb pour moteurs à combustion interne à allumage commandé pour réduire l'érosion du siège de soupape.

Publication
EP 0639632 B1 19980422 (DE)

Application
EP 94890107 A 19940621

Priority
AT 163693 A 19930817

Abstract (en)
[origin: EP0639632A1] A novel anti-wear additive to unleaded internal combustion engine fuels (petrols) contains at least one alkali metal salt or alkaline earth metal salt of an alkyl sulphosuccinate in combination with a detergent and, if appropriate, with other fuel additives known per se.

IPC 1-7
C10L 1/14; C10L 1/24

IPC 8 full level
C10L 10/00 (2006.01); **C10L 1/14** (2006.01); **C10L 1/24** (2006.01); **C10L 10/04** (2006.01); **C10L 1/22** (2006.01)

CPC (source: EP)
C10L 1/143 (2013.01); **C10L 1/2437** (2013.01); **C10L 10/02** (2013.01); **C10L 10/08** (2013.01); **C10L 1/2383** (2013.01)

Cited by
WO2020260062A1; EP1277828A3; DE102022131890A1; WO2011134923A1; WO0047698A1; DE102008037662A1; DE102022131356A1; WO2013117616A1; WO2018007375A1; US7601185B2; WO2012076428A1; EP3263563A1; DE212016000150U1; WO2018188986A1; US11085001B2; WO2015007553A1; US9688791B2; WO2018188982A1; US11130923B2; WO2014064151A1; EP2811007A1; US10173963B2; US10689326B2; WO2009095443A1; JP2002536531A; WO2015113681A1; WO2018114350A1; EP3363879A2; US10927319B2; US11168273B2; US11634654B2; EP2267104A2; EP2272821A2; US8551365B2; US8858838B2; WO2018007486A1; US10062471B2; EP2270119A1; US8790426B2; US9315759B2; US9562202B2; US9670430B2; WO2018007445A1; EP3736317A1; EP3933014A1; EP4382588A1; DE102010001408A1; EP2540808A1; WO2013000997A1; WO2015058992A1; US9062266B2; EP3241882A1; US9951288B2; US10030206B2; US10465138B2; DE102022132342A1; WO2012072723A2; US9006158B2; US9296841B2; US9359570B2; EP3483234A1; US10370610B2; US10745496B2; US10815444B2; US11306161B2; DE102010039039A1; US8911516B2; WO2015058993A2; US9951285B2; US9957455B2; US10119085B2; US10240100B2; US10377958B2; US10550346B2; EP3940043A1; US7850744B2; WO2012004300A1; WO2012072643A2; EP2589647A1; WO2013064689A1; US8814957B2; EP2808350A1; EP3327044A1; WO2018114348A1; EP3747915A1; EP4406982A2; US7753970B2; WO2011161149A1; WO2013087701A1; EP3205705A1; WO2017144378A1; DE212015000271U1; WO2018007191A1; WO2018007192A1; WO2018108534A1; US10407634B2; EP3653689A1; US10676685B2; US10844308B2; US10947467B2; US11078418B2; US11111449B2; US11566196B2; EP4190882A1; EP4219667A2; US11912950B2; EP4442792A2; EP2270119B1

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