

Title (en)  
ARYLOXY ALKYLAMINES AS FUEL ADDITIVES FOR REDUCING INJECTOR FOULING IN DIRECT INJECTION SPARK IGNITION GASOLINE ENGINES

Title (de)  
ARYLOXYALKYLAMINE ALS KRAFTSTOFFADDITIVE ZUR VERRINGERUNG DER INJEKTORVERSCHMUTZUNG IN OTTOMOTOREN MIT DIREKTEINSPRITZUNG

Title (fr)  
ARYLOXY ALKYLAMINES UTILISÉES COMME ADDITIFS DE CARBURANT POUR RÉDUIRE L'ENCRASSEMENT DES INJECTEURS DANS DES MOTEURS À ESSENCE, ALLUMAGE PAR ÉTINCELLE ET INJECTION DIRECTE

Publication  
**EP 4214297 B1 20240710 (EN)**

Application  
**EP 21773883 A 20210915**

Priority  
• US 202063079609 P 20200917  
• IB 2021058387 W 20210915

Abstract (en)  
[origin: WO2022058894A1] A fuel composition is described. The composition contains gasoline and an aryloxy alkylamine additive. The structure of the aryloxy alkylamine additive is given by Formula (I) where the aryloxy alkylamine additive is present in about 10 to about 750 ppm by weight based on total weight of the fuel composition. X is a hydrocarbaryl group having 1 or 2 carbon atoms. R1 and R2 are independently hydrogen or substituted hydrocarbaryl group having up to 36 carbon atoms..

IPC 8 full level  
**C10L 1/222** (2006.01); **C07C 217/50** (2006.01); **C10L 1/223** (2006.01); **C10L 1/224** (2006.01); **C10L 1/23** (2006.01); **C10L 1/2383** (2006.01); **C10L 1/2387** (2006.01); **C10L 10/02** (2006.01); **C10L 10/04** (2006.01); **C10L 10/06** (2006.01)

CPC (source: EP KR US)  
**C10L 1/222** (2013.01 - US); **C10L 1/2222** (2013.01 - EP KR); **C10L 10/02** (2013.01 - EP KR); **C10L 10/04** (2013.01 - EP KR); **C10L 1/223** (2013.01 - EP KR); **C10L 1/224** (2013.01 - EP KR); **C10L 1/231** (2013.01 - EP KR); **C10L 1/2383** (2013.01 - EP KR); **C10L 1/2387** (2013.01 - EP KR); **C10L 2200/0423** (2013.01 - EP KR US); **C10L 2230/08** (2013.01 - US); **C10L 2270/023** (2013.01 - EP KR US)

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DOCDB simple family (publication)  
**WO 2022058894 A1 20220324**; AU 2021342779 A1 20230427; AU 2021342779 A9 20240926; CA 3195345 A1 20220324; CN 116234891 A 20230606; CO 2023004450 A2 20230427; EP 4214297 A1 20230726; EP 4214297 B1 20240710; JP 2023541471 A 20231002; KR 20230068407 A 20230517; MX 2023003074 A 20230519; US 2024026239 A1 20240125

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