

Title (en)
FUEL ENRICHMENT PROCESS

Title (de)
KRAFTSTOFFANREICHERUNGSVERFAHREN

Title (fr)
PROCÉDÉ D'ENRICHISSEMENT D'UN COMBUSTIBLE

Publication
EP 2994438 A2 20160316 (EN)

Application
EP 14732285 A 20140512

Priority
• GB 201308472 A 20130510
• GB 2014051445 W 20140512

Abstract (en)
[origin: WO2014181133A2] A process for breaking hydrocarbon bonds during the combustion or heating of a particulate hydrocarbon containing fuel bound carbon and fuel bound nitrogen comprises the steps of: heating the particulate hydrocarbon with a fuel improver in a burner, the fuel improver comprising predominantly iron oxide and silicon dioxide. The proportion of fuel improver to fuel is up to 33% by weight of particulate hydrocarbon. The particulate hydrocarbon has a particle size distribution and the fuel improver has a particle size distribution, and particles of hydrocarbon at the 90th percentile of its particle size distribution are larger than the particles of the fuel improver at the 90th percentile of its particle size distribution, and wherein the particles of fuel improver at the 10th percentile of its particle size distribution are an order of magnitude smaller than the hydrocarbon particles at the 90th percentile its particle size distribution.

IPC 8 full level
C04B 7/12 (2006.01); **C04B 18/08** (2006.01); **C10L 9/10** (2006.01)

CPC (source: EP GB KR US)
C04B 7/12 (2013.01 - GB); **C04B 7/243** (2013.01 - EP KR US); **C04B 18/08** (2013.01 - GB); **C04B 18/084** (2013.01 - EP KR US); **C04B 28/02** (2013.01 - EP KR US); **C10L 9/10** (2013.01 - GB KR US); **C10L 9/12** (2013.01 - GB); **C10L 10/00** (2013.01 - GB); **C10L 10/02** (2013.01 - KR US); **F23J 15/022** (2013.01 - KR US); **C10L 2200/024** (2013.01 - GB); **C10L 2200/0254** (2013.01 - GB KR US); **C10L 2230/04** (2013.01 - EP KR US); **C10L 2230/22** (2013.01 - EP GB KR US); **C10L 2250/06** (2013.01 - KR US); **F23K 2201/505** (2013.01 - EP KR US); **Y02P 40/10** (2015.11 - EP US); **Y02W 30/91** (2015.05 - EP US)

C-Set (source: EP US)
C04B 28/02 + C04B 18/084

Citation (search report)
See references of WO 2014181133A2

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014181133 A2 20141113; WO 2014181133 A3 20150129; CN 105263880 A 20160120; EP 2994438 A2 20160316; GB 201308472 D0 20130619; GB 201408385 D0 20140625; GB 2516728 A 20150204; GB 2516728 B 20160113; JP 2016527328 A 20160908; KR 20160067811 A 20160614; RU 2015153105 A 20170616; US 2016084500 A1 20160324; ZA 201509033 B 20171129

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GB 2014051445 W 20140512; CN 201480031781 A 20140512; EP 14732285 A 20140512; GB 201308472 A 20130510; GB 201408385 A 20140512; JP 2016512423 A 20140512; KR 20157035187 A 20140512; RU 2015153105 A 20140512; US 201414889422 A 20140512; ZA 201509033 A 20151210