

Title (en)

TORREFACTION AND PARTIAL PYROLYSIS OF MATERIAL FOR FUEL PELLET PRODUCTION

Title (de)

TORREFIZIERUNG UND TEILPYROLYSE VON MATERIAL ZUR HERSTELLUNG VON BRENNSTOFFPELLETS

Title (fr)

TORRÉFACTION ET PYROLYSE PARTIELLE DE MATÉRIAU POUR LA PRODUCTION DE PASTILLES COMBUSTIBLES

Publication

**EP 2718408 A4 20150401 (EN)**

Application

**EP 12796021 A 20120611**

Priority

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- EP 11169556 A 20110610
- EP 11169562 A 20110610
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- EP 12796021 A 20120611

Abstract (en)

[origin: WO2012167795A1] The present application discloses a continuous process for the preparation of fuel pellets, said process comprising the steps of a) feeding a feedstock to a torrefaction and partial pyrolysis step at a temperature in the range from 250 °C to 500 °C, whereby a solid char and volatile fraction are obtained, said volatile fraction comprising a tar fraction; b) directing the evolved volatile fraction as counter current stream relative to the stream of the feedstock, and at least partially condensing the volatile fraction on the incoming feedstock so as to obtain a tar-rich fraction combined with the incoming feedstock; and c) pelletization of the combined solid char/tar-rich fraction so as to obtain said fuel pellets. Novel fuel pellets are also disclosed.

IPC 8 full level

**C10L 5/44** (2006.01); **C10L 5/36** (2006.01); **C10L 9/08** (2006.01)

CPC (source: EP US)

**C10L 5/16** (2013.01 - EP US); **C10L 5/363** (2013.01 - EP US); **C10L 5/447** (2013.01 - EP US); **C10L 9/086** (2013.01 - EP US); **Y02E 50/10** (2013.01 - EP US); **Y02E 50/30** (2013.01 - EP US)

Citation (search report)

- [X] WO 2010129988 A1 20101118 - ANTHROTERRA PTY LTD [AU], et al
- [X] EP 2287278 A2 20110223 - ANDRITZ TECH & ASSET MAN GMBH [AT]
- [I] US 2009007484 A1 20090108 - SMITH DAVID G [US]
- [E] WO 2012158118 A1 20121122 - BIOENDEV AB [SE], et al
- See references of WO 2012167796A1

Cited by

EP3176244A1; EP3184613A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2012167795 A1 20121213**; BR 112013031642 A2 20161206; BR 112013031655 A2 20161206; CA 2838571 A1 20121213; CA 2838760 A1 20121213; CN 103649280 A 20140319; CN 103687934 A 20140326; EP 2718408 A1 20140416; EP 2718408 A4 20150401; EP 2718409 A1 20140416; EP 2718409 A4 20150401; RU 2014100163 A 20150720; RU 2014100166 A 20150720; US 2014109468 A1 20140424; US 2014115956 A1 20140501; WO 2012167796 A1 20121213; WO 2012167796 A8 20130221

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**DK 2012000072 W 20120611**; BR 112013031642 A 20120611; BR 112013031655 A 20120611; CA 2838571 A 20120611; CA 2838760 A 20120611; CN 201280028486 A 20120611; CN 201280028491 A 20120611; DK 2012000073 W 20120611; EP 12796021 A 20120611; EP 12796076 A 20120611; RU 2014100163 A 20120611; RU 2014100166 A 20120611; US 201214125103 A 20120611; US 201214125105 A 20120611