

Title (en)
UNDERGROUND REACTOR SYSTEM

Title (de)
UNTERIRDISCHES REAKTORSYSTEM

Title (fr)
SYSTÈME RÉACTEUR SOUTERRAIN

Publication
EP 2705131 A4 20150114 (EN)

Application
EP 12779787 A 20120503

Priority
• US 201161481918 P 20110503
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• US 2012036400 W 20120503

Abstract (en)
[origin: WO2012151447A2] An underground reactor for creating hydrocarbons and chemicals from organic material preferably includes a heat recovery device. Some embodiments of the present invention include at least one tube that injects biomass underground and at least one second tube that collects reacted biomass on the surface. Further tubes are also disclosed for the ability to control temperature and pressure and collect minerals and carbon dioxide. Methods for utilizing the reactor are additionally provided. Further embodiments include methods of using the reactor such as, for example, methods of creating fuel from algae and methods of using the minerals and carbon dioxide as food for an algae farm that will be used as biomass for the reactor.

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Citation (search report)
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• [Y] US 5072783 A 19911217 - AYALA MARTINEZ GUILLERMO [ES], et al
• [A] WO 2008134486 A1 20081106 - ENERTECH ENVIRONMENTAL INC [US], et al
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Designated contracting state (EPC)
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WO 2012151447 A2 20121108; WO 2012151447 A3 20121227; AU 2012250684 A1 20131121; AU 2012250684 B2 20170223; BR 112013028426 A2 20190924; CA 2834858 A1 20121108; CN 103608449 A 20140226; CN 103608449 B 20160622; CN 106010615 A 20161012; CN 106010615 B 20200724; EP 2705131 A2 20140312; EP 2705131 A4 20150114; MX 2013012789 A 20140922; RU 2013153484 A 20150610; RU 2627594 C2 20170809; US 2014206912 A1 20140724

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