

Title (en)
IMPROVED CATALYTIC FAST PYROLYSIS PROCESS

Title (de)
VERBESSERTES KATALYTISCHES SCHNELLPYROLYSEVERFAHREN

Title (fr)
PROCÉDÉ DE PYROLYSE CATALYTIQUE RAPIDE AMÉLIORÉ

Publication
EP 3221425 A4 20180620 (EN)

Application
EP 15860567 A 20151022

Priority
• US 201462082419 P 20141120
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Abstract (en)
[origin: US2016145496A1] The present invention provides an improved catalytic fast pyrolysis process for increased yield of useful and desirable products. The process comprises the steps of: a) feeding biomass, a specific catalyst composition and transport fluid to a catalytic fast pyrolysis process fluidized bed reactor maintained at reaction conditions to manufacture a raw fluid product stream, b) feeding the raw fluid product stream of step a) to a catalyst separation and stripping system to produce separated catalyst and a fluid product stream, c) feeding the fluid product stream of step b) to a vapor/liquid separation system to produce a liquid phase stream and a vapor phase stream comprising benzene, toluene and xylenes, d) feeding the vapor phase stream of step c) to a product recovery system to recover benzene, toluene and xylenes, and e) recycling at least a portion of the recovered toluene of step d) to the fluidized bed reactor of step a).

IPC 8 full level
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B01J 29/40 (2013.01 - KR); **C10B 49/22** (2013.01 - EP KR US); **C10B 53/02** (2013.01 - EP KR US); **C10B 57/06** (2013.01 - EP KR US); **C10G 1/002** (2013.01 - EP KR US); **C10G 1/08** (2013.01 - EP US); **C10G 1/086** (2013.01 - EP KR US); **B01J 29/40** (2013.01 - EP US); **C10G 2400/30** (2013.01 - EP KR US); **Y02E 50/10** (2013.01 - EP US); **Y02P 20/145** (2015.11 - EP US)

Citation (search report)
• [Y] US 2013023706 A1 20130124 - HUBER GEORGE W [US], et al
• [Y] WO 2013169464 A1 20131114 - EXXONMOBIL CHEM PATENTS INC [US]
• [A] US 2013267744 A1 20131010 - KIM HONG CHAN [KR], et al
• See references of WO 2016081148A1

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