

Title (en)  
COMPONENT SEPARATIONS IN POLYMERIZATION

Title (de)  
KOMONENTENTRENNUNGEN IN EINER POLYMERISIERUNG

Title (fr)  
SÉPARATIONS DE COMPOSANTS LORS D'UNE POLYMÉRISATION

Publication  
**EP 2836284 A2 20150218 (EN)**

Application  
**EP 13717384 A 20130404**

Priority  
• US 201213447003 A 20120413  
• US 2013035274 W 20130404

Abstract (en)  
[origin: WO2013154907A2] A process for component separation in a polymer production system, comprising separating a polymerization product stream into a gas stream and a polymer stream, wherein the gas stream comprises ethane and unreacted ethylene, distilling the gas stream into a light hydrocarbon stream, wherein the light hydrocarbon stream comprises ethane and unreacted ethylene, contacting the light hydrocarbon stream with an absorption solvent system, wherein at least a portion of the unreacted ethylene from the light hydrocarbon stream is absorbed by the absorption solvent system, and recovering a waste gas stream from the absorption solvent system, wherein the waste gas stream comprises ethane, hydrogen, or combinations thereof.

IPC 8 full level  
**B01D 53/00** (2006.01); **C08F 2/00** (2006.01); **C08F 2/01** (2006.01); **C08F 6/00** (2006.01); **C08F 10/02** (2006.01); **C08J 11/02** (2006.01)

CPC (source: EP RU)  
**C08F 2/001** (2013.01 - EP); **C08F 6/001** (2013.01 - EP); **C08J 11/02** (2013.01 - EP); **B01D 53/00** (2013.01 - RU); **C08F 110/02** (2013.01 - EP); **C08J 2323/06** (2013.01 - EP)

Citation (search report)  
See references of WO 2013154907A2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2013154907 A2 20131017**; **WO 2013154907 A3 20140103**; CA 2869960 A1 20131017; CN 104245088 A 20141224; CN 104245088 B 20161123; EP 2836284 A2 20150218; IN 8508DEN2014 A 20150515; MX 2014012363 A 20141205; RU 2014140971 A 20160610; RU 2619690 C2 20170517; SG 11201406524V A 20141127

DOCDB simple family (application)  
**US 2013035274 W 20130404**; CA 2869960 A 20130404; CN 201380019547 A 20130404; EP 13717384 A 20130404; IN 8508DEN2014 A 20141011; MX 2014012363 A 20130404; RU 2014140971 A 20130404; SG 11201406524V A 20130404