

Title (en)  
CRYOGENIC PURIFICATION WITH HEAT UPTAKE

Title (de)  
KRYOGENE REINIGUNG MIT WÄRMEAUFNAHME

Title (fr)  
ÉPURATION CRYOGÉNIQUE AVEC ENTRÉE DE CHALEUR

Publication  
**EP 3161399 A1 20170503 (FR)**

Application  
**EP 15733826 A 20150612**

Priority  
• FR 1455985 A 20140626  
• FR 2015051567 W 20150612

Abstract (en)  
[origin: WO2015197940A1] Process for purifying a gaseous feed stream using an adsorption unit comprising at least two adsorbers, a cryogenic distillation unit, an exchanger and a compressor operating at a temperature less than or equal to -50°C, in which the heat necessary for the regeneration of the adsorbers is derived, at least partly, from at least one portion of the heat generated by the compressor, during the compression of a fluid.

IPC 8 full level  
**F25J 3/04** (2006.01)

CPC (source: CN EP US)  
**F25J 3/04054** (2013.01 - CN EP US); **F25J 3/0406** (2013.01 - CN EP US); **F25J 3/04242** (2013.01 - CN EP US);  
**F25J 2205/60** (2013.01 - CN EP US); **F25J 2205/70** (2013.01 - CN EP US)

Citation (search report)  
See references of WO 2015197940A1

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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**FR 3022993 A1 20160101**; CN 106461323 A 20170222; CN 106461323 B 20190806; EP 3161399 A1 20170503; EP 3161399 B1 20180815;  
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**FR 1455985 A 20140626**; CN 201580033220 A 20150612; EP 15733826 A 20150612; FR 2015051567 W 20150612;  
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