

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

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)
FR 3022993 A1 20160101; CN 106461323 A 20170222; CN 106461323 B 20190806; EP 3161399 A1 20170503; EP 3161399 B1 20180815;
US 2017138665 A1 20170518; WO 2015197940 A1 20151230

DOCDB simple family (application)
FR 1455985 A 20140626; CN 201580033220 A 20150612; EP 15733826 A 20150612; FR 2015051567 W 20150612;
US 201515318801 A 20150612