

Title (en)
METHOD AND INSTALLATION FOR CRYOGENIC DECOMPOSITION OF AIR

Title (de)
VERFAHREN UND ANLAGE ZUR TIEFTEMPERATURZERLEGUNG VON LUFT

Title (fr)
PROCEDE ET INSTALLATION CRYOGENIQUES DE SEPARATION D'AIR

Publication
EP 3101374 A3 20170118 (DE)

Application
EP 16001082 A 20160512

Priority
EP 15001668 A 20150603

Abstract (en)
[origin: US2016356547A1] A method and air separation plant for the distillative cryogenic separation of feed air in a distillation column system of an air separation plant at different distillation pressures, wherein all of the feed air in a total air quantity is compressed to a first pressure level that is at least 4 to 5 bar above the highest of the distillation pressures, and from the total air quantity a first part air quantity is first cooled to a first temperature level of 130 to 170 K and then compressed to a second pressure level that is at least 10 bar above the first pressure level, and a second part air quantity is first cooled to a second temperature level of 110 to 150 K and then expanded to a third pressure level that is below the first pressure level.

IPC 8 full level
F25J 3/04 (2006.01)

CPC (source: CN EP US)
F25J 3/04024 (2013.01 - EP US); **F25J 3/0403** (2013.01 - CN); **F25J 3/04036** (2013.01 - CN); **F25J 3/04042** (2013.01 - CN); **F25J 3/04054** (2013.01 - EP US); **F25J 3/04084** (2013.01 - EP US); **F25J 3/0409** (2013.01 - EP US); **F25J 3/04175** (2013.01 - EP US); **F25J 3/04296** (2013.01 - EP US); **F25J 3/04381** (2013.01 - EP US); **F25J 3/04393** (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 2230/20** (2013.01 - EP US); **F25J 2240/04** (2013.01 - EP US)

Citation (search report)

- [Y] US 2014007617 A1 20140109 - LE BOT PATRICK [FR]
- [Y] EP 2634517 A1 20130904 - AIR LIQUIDE [FR]
- [Y] DE 1501733 A1 19691127 - MESSER GRIESHEIM GMBH
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EP3410050A1; EP3179188A1; RU2768445C2; WO2019214847A1; US11098950B2; WO2023051946A1

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)
EP 3101374 A2 20161207; EP 3101374 A3 20170118; CN 106247758 A 20161221; US 2016356547 A1 20161208

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