

Title (en)
AIR SEPARATING DEVICE BY MEANS OF CRYOGENIC DISTILLATION

Title (de)
LUFTTRENNVORRICHTUNG DURCH KRYOGENISCHE DESTILLATION

Title (fr)
APPAREIL DE SÉPARATION D'AIR PAR DISTILLATION CRYOGÉNIQUE

Publication
EP 1966554 A2 20080910 (FR)

Application
EP 06842175 A 20061215

Priority
• FR 2006051366 W 20061215
• FR 0553971 A 20051220

Abstract (en)
[origin: FR2895069A1] The apparatus has a pipe (1) sending compressed and purified air to an exchange line (3). Another pipe sends compressed, purified and cooled air from the exchange line to a simple distillation column (7). A pipe (11) withdraws oxygen enriched liquid from the column and sends the liquid to the exchange line. The exchange line includes a dephlegmation section (3B) and a heat exchanger section (3A), where the dephlegmation section is connected to the column and the oxygen enriched liquid pipe and the heat exchanger section is connected to the cooled air pipe and the dephlegmation section. An independent claim is also included for a method of separating air.

IPC 8 full level
F25J 3/04 (2006.01)

CPC (source: EP US)
F25J 3/04254 (2013.01 - EP US); **F25J 3/04284** (2013.01 - EP US); **F25J 3/04296** (2013.01 - EP US); **F25J 3/04624** (2013.01 - EP US);
F25J 3/04872 (2013.01 - EP US); **F25J 5/007** (2013.01 - EP US); **F25J 2200/02** (2013.01 - EP US); **F25J 2210/42** (2013.01 - EP US);
F25J 2290/44 (2013.01 - EP US)

Citation (search report)
See references of WO 2007074276A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2895069 A1 20070622; **FR 2895069 B1 20140131**; CN 101341370 A 20090107; CN 101341370 B 20110914; DK 1966554 T3 20181015;
EP 1966554 A2 20080910; EP 1966554 B1 20180815; ES 2689041 T3 20181108; JP 2009520176 A 20090521; JP 5074416 B2 20121114;
PL 1966554 T3 20181130; US 2008271481 A1 20081106; WO 2007074276 A2 20070705; WO 2007074276 A3 20070913

DOCDB simple family (application)
FR 0553971 A 20051220; CN 200680047954 A 20061215; DK 06842175 T 20061215; EP 06842175 A 20061215; ES 06842175 T 20061215;
FR 2006051366 W 20061215; JP 2008546547 A 20061215; PL 06842175 T 20061215; US 9764106 A 20061215