

Title (en)
AIR SEPARATION METHOD AND PLANT

Title (de)
VERFAHREN UND VORRICHTUNG ZUR LUFTZERLEGUNG

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

Publication
EP 1250185 A2 20021023 (FR)

Application
EP 00993692 A 20001228

Priority
• FR 0003706 W 20001228
• FR 9916751 A 19991230

Abstract (en)
[origin: US2003140653A1] The pressurized waste nitrogen (11) from a column of an air separation unit (10) is sent, optionally after being compressed, to a combustion chamber (15) where it is heated, to a turbine (17) in which it is expanded and again to the combustion chamber (15) where it is mixed with the flue gases in order to give up waste heat thereto.

IPC 1-7
B01D 53/00; C01B 21/04; F25J 3/04; B01D 171/10

IPC 8 full level
F23R 3/00 (2006.01); **F23R 3/02** (2006.01); **F25J 3/04** (2006.01)

CPC (source: EP US)
F25J 3/04157 (2013.01 - EP US); **F25J 3/04557** (2013.01 - EP US); **F25J 3/04563** (2013.01 - EP US); **F25J 3/04581** (2013.01 - EP US);
F25J 3/04612 (2013.01 - EP US); **F25J 3/04618** (2013.01 - EP US); **F25J 2270/906** (2013.01 - EP US)

Citation (search report)
See references of WO 0149394A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
US 2003140653 A1 20030731; **US 6776005 B2 20040817**; AT E307659 T1 20051115; AU 2860801 A 20010716; CA 2389546 A1 20010712;
DE 60023557 D1 20051201; DE 60023557 T2 20060727; EP 1250185 A2 20021023; EP 1250185 B1 20051026; ES 2251422 T3 20060501;
FR 2803221 A1 20010706; FR 2803221 B1 20020329; JP 2003519349 A 20030617; KR 100747615 B1 20070809; KR 20020066328 A 20020814;
WO 0149394 A2 20010712; WO 0149394 A3 20020131

DOCDB simple family (application)
US 16935402 A 20021115; AT 00993692 T 20001228; AU 2860801 A 20001228; CA 2389546 A 20001228; DE 60023557 T 20001228;
EP 00993692 A 20001228; ES 00993692 T 20001228; FR 0003706 W 20001228; FR 9916751 A 19991230; JP 2001549754 A 20001228;
KR 20027006669 A 20020524