

Title (en)
METHOD FOR WATER VAPOUR PRODUCTION AND AIR DISTILLATION

Title (de)
VERFAHREN ZUR DAMPFERZEUGUNG UND LUFTZERLEGUNG

Title (fr)
PROCEDE DE PRODUCTION DE VAPEUR D'EAU ET DE DISTILLATION D'AIR

Publication
EP 1409937 B1 20101208 (FR)

Application
EP 02751288 A 20020627

Priority
• FR 0202225 W 20020627
• FR 0109307 A 20010712

Abstract (en)
[origin: WO03006902A1] The invention concerns a method for driving at least a compression machine (7, 8) of an air distillation unit (3) which supplies oxygen and/or nitrogen and/or argon to an industrial plant (1) producing water vapour. In normal running conditions, the compression machine is driven at least partly by a steam turbine (13) fed with said water vapour, which is input at an input port (15) of the turbine. The turbine has two input ports (15, 16) which correspond to different intake pressures. During at least one operating phase of said plant (1), the turbine is partly supplied with water vapour from an auxiliary water vapour source (21) and input at the turbine other input port (16). The invention is useful for supplying air gas to a synthetic hydrocarbon production plant.

IPC 8 full level
F01D 15/08 (2006.01); **F01D 17/00** (2006.01); **F01K 13/00** (2006.01); **F01K 21/04** (2006.01); **F01K 27/02** (2006.01); **F25J 3/04** (2006.01)

CPC (source: EP US)
F25J 3/04018 (2013.01 - EP US); **F25J 3/04024** (2013.01 - EP US); **F25J 3/0409** (2013.01 - EP US); **F25J 3/04121** (2013.01 - EP US);
F25J 3/04145 (2013.01 - EP US); **F25J 3/04521** (2013.01 - US); **F25J 3/04539** (2013.01 - EP US); **F25J 3/04545** (2013.01 - EP US);
F25J 3/04563 (2013.01 - EP US); **F25J 3/04818** (2013.01 - EP US)

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
WO 03006902 A1 20030123; DE 60238537 D1 20110120; EP 1409937 A1 20040421; EP 1409937 B1 20101208; ES 2357500 T3 20110427;
FR 2827187 A1 20030117; FR 2827187 B1 20040723; JP 2004536251 A 20041202; JP 4422478 B2 20100224; US 2004211183 A1 20041028;
US 7010919 B2 20060314

DOCDB simple family (application)
FR 0202225 W 20020627; DE 60238537 T 20020627; EP 02751288 A 20020627; ES 02751288 T 20020627; FR 0109307 A 20010712;
JP 2003512624 A 20020627; US 48391704 A 20040608