

Title (en)

COGENERATION METHOD AND DEVICE USING A GAS TURBINE COMPRISING A POST-COMBUSTION CHAMBER

Title (de)

VERFAHREN UND APPARAT ZUR GLEICHZEITIGEN ERZEUGUNG ELEKTRISCHER UND THERMISCHER ENERGIE MIT GASTURBINE MIT EINER NACHBRENNKAMMER

Title (fr)

PROCEDE ET DISPOSITIF DE COGENERATION PAR TURBINE A GAZ AVEC CHAMBRE DE POSTCOMBUSTION

Publication

EP 1608858 A2 20051228 (FR)

Application

EP 04719501 A 20040311

Priority

- FR 2004000600 W 20040311
- FR 0303141 A 20030313

Abstract (en)

[origin: FR2852358A1] The process involves compressing an oxidant with a fuel in a compression section (14). The compressed oxidant is combusted under pressure in a combustion chamber (20). A part of hot gas obtained by the combustion is exchanged with an external installation (34). The gas is reheated in an expansion section (52) to obtain hot gas under conditions of temperature and pressure close to those achieved in the absence of gas exchange. An independent claim is also included for a heat and work cogeneration device for use by a gas turbine.

IPC 1-7

F02C 3/00; **F02C 6/00**

IPC 8 full level

F02C 6/00 (2006.01); **F02C 6/18** (2006.01)

CPC (source: EP US)

F02C 6/00 (2013.01 - EP US); **F02C 6/003** (2013.01 - EP US); **F02C 6/006** (2013.01 - EP US); **F02C 6/18** (2013.01 - EP US); **Y02E 20/14** (2013.01 - EP US)

Citation (search report)

See references of WO 2004083729A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2852358 A1 20040917; **FR 2852358 B1 20060609**; CA 2518460 A1 20040930; EP 1608858 A2 20051228; JP 2006520442 A 20060907; JP 4842801 B2 20111221; RU 2005131619 A 20060320; RU 2309275 C2 20071027; US 2006260321 A1 20061123; US 7703271 B2 20100427; WO 2004083729 A2 20040930; WO 2004083729 A3 20041111

DOCDB simple family (application)

FR 0303141 A 20030313; CA 2518460 A 20040311; EP 04719501 A 20040311; FR 2004000600 W 20040311; JP 2006505720 A 20040311; RU 2005131619 A 20040311; US 54873804 A 20040311