

Title (en)

METHOD FOR INCREASING THE EFFICIENCY OF A COMBINED GAS/STEAM POWER STATION WITH INTEGRATED GASIFICATION COMBINED CYCLE

Title (de)

VERFAHREN ZUR STEIGERUNG DES WIRKUNGSGRADS EINES KOMBINIERTEN GAS- UND DAMPFKRAFTWERKS MIT INTEGRIERTER BRENNSTOFFVERGASUNG

Title (fr)

PROCEDE POUR AUGMENTER LE RENDEMENT D'UNE CENTRALE THERMIQUE A GAZ ET A VAPEUR COMBINEE, COMPRENANT UN SYSTEME DE GAZEIFICATION DE COMBUSTIBLE INTEGRE

Publication

EP 1913238 A2 20080423 (DE)

Application

EP 06792578 A 20060726

Priority

- EP 2006064693 W 20060726
- EP 05017062 A 20050805
- EP 06792578 A 20060726

Abstract (en)

[origin: WO2007017387A2] The invention relates to a method for increasing the efficiency of a combined gas/steam power station (10) with integrated gasification combined cycle. Said power station comprises a gas turbine compressor (14) and an air-separation unit (18) having a defined working pressure. Compressed air is removed from the gas turbine compressor (14) at a pressure level that is adapted to the working pressure of the air-separation unit (18). The removed air is then supplied to the air-separation unit (18) where the air is broken down into its individual constituents, especially oxygen and nitrogen. The nitrogen produced in the air-separation unit (18) is removed from the air-separation unit and at least a part of the removed nitrogen quantity is used as a coolant in the gas/steam power station in order to improve its efficiency.

IPC 8 full level

F01K 23/06 (2006.01)

CPC (source: EP US)

F01K 23/068 (2013.01 - EP US); **F25J 3/04545** (2013.01 - EP US); **F25J 3/04563** (2013.01 - EP US); **F25J 3/04575** (2013.01 - EP US); **F25J 3/04581** (2013.01 - EP US); **F25J 3/04606** (2013.01 - EP US); **F25J 3/04618** (2013.01 - EP US); **F25J 2210/04** (2013.01 - EP US); **F25J 2240/70** (2013.01 - EP US); **F25J 2240/82** (2013.01 - EP US); **F25J 2245/42** (2013.01 - EP US); **F25J 2260/44** (2013.01 - EP US); **Y02E 20/16** (2013.01 - EP US); **Y02E 20/18** (2013.01 - EP US)

Citation (search report)

See references of WO 2007017387A2

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

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2007017387 A2 20070215; **WO 2007017387 A3 20080703**; CN 101287893 A 20081015; CN 101287893 B 20120613; EP 1913238 A2 20080423; IL 189153 A0 20090803; US 2010146929 A1 20100617; US 8020388 B2 20110920

DOCDB simple family (application)

EP 2006064693 W 20060726; CN 200680037156 A 20060726; EP 06792578 A 20060726; IL 18915308 A 20080131; US 99003406 A 20060726