

Title (en)

GAS-TURBINE/STEAM-TURBINE INSTALLATION

Title (de)

GAS- UND DAMPFTURBINENANLAGE

Title (fr)

INSTALLATION A TURBINE A GAZ ET A TURBINE A VAPEUR

Publication

EP 0584072 B1 19960522 (DE)

Application

EP 92900067 A 19911206

Priority

- DE 9100952 W 19911206
- DE 4116065 A 19910516

Abstract (en)

[origin: WO9220905A1] The installation proposed comprises a gas turbine (6) with, connected to it on the exhaust-outlet side, a steam generator (2) for the production of steam for a steam turbine (4) connected into a water/steam circuit (3), the steam generator (2) including a furnace (8) connected to a coal-crushing unit (10). In order to achieve high overall efficiency when retrofitting an existing steam-turbine installation with a gas turbine, the invention calls for a first, adjustable part (t1) of the gas-turbine exhaust gas (a) cooled in a first heat exchanger (20) to be fed to the furnace (8) for use as combustion air. A second, adjustable part (t2) of the cooled exhaust gas (a) is fed to a second heat exchanger (29) to heat air (l) for the coal-crushing unit (10). A third, adjustable part (t3) of the cooled exhaust gas (a) is mixed with the flue gas (r) from the furnace (8) passing through the steam generator (2).

IPC 1-7

F01K 23/10

IPC 8 full level

F01K 23/06 (2006.01); **F01K 23/10** (2006.01); **F02C 6/18** (2006.01)

CPC (source: EP US)

F01K 23/103 (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

WO 9220905 A1 19921126; DE 4116065 A1 19921119; DE 59107850 D1 19960627; EP 0584072 A1 19940302; EP 0584072 B1 19960522; JP 3231761 B2 20011126; JP H06507459 A 19940825; RU 2090761 C1 19970920; UA 27727 C2 20001016; US 5367870 A 19941129

DOCDB simple family (application)

DE 9100952 W 19911206; DE 4116065 A 19910516; DE 59107850 T 19911206; EP 92900067 A 19911206; JP 50027392 A 19911206; RU 93058484 A 19911206; UA 93002431 A 19911206; US 15318193 A 19931116