Title (en)

METHOD FOR OPERATING A GAS AND STEAM TURBINE SYSTEM AND A CORRESPONDING SYSTEM

Title (de)

VERFAHREN ZUM BETREIBEN EINER GAS- UND DAMPFTURBINENANLAGE SOWIE ENTSPRECHENDE ANLAGE

Title (fr)

PROCEDE POUR L'EXPLOITATION D'UNE INSTALLATION DE TURBINES A VAPEUR ET A GAZ ET INSTALLATION CORRESPONDANTE

Publication

EP 1320665 A1 20030625 (DE)

Application

EP 01978376 A 20010917

Priority

- EP 01978376 A 20010917
- EP 0110749 W 20010917
- EP 00121502 A 20000929

Abstract (en)

[origin: EP1193373A1] Method used for operating a gas and steam turbine system (1) comprises feeding the flue gas (AM) exiting from the gas turbine (2) operated by gas and oil over a waste-heat steam generator (30) whose heating surfaces are connected in the water/steam circuit of a steam turbine (20) having a number of pressure stages (20a, 20b, 20c). In the waste-heat steam generator, preheated condensate is heated as feed water (S) under high pressure and fed as steam (F) to the steam turbine. When operation changes from gas to oil a partial stream (tS) of heated feed water (S') is injected into the cold condensate (K). An Independent claim is also included for a gas and steam turbine system. Preferred Features: A partial stream is removed from a high pressure stage (50) and/or a medium pressure stage (70) of the water/steam circuit, from the output side of a high pressure economizer (51, 52) or medium pressure economizer (73), or from a high pressure drum (54) or medium pressure drum (75) connected in the water/steam circuit.

IPC 1-7

F01K 23/10; B01F 3/08; B01F 5/04

IPC 8 full level

B01F 3/08 (2006.01); **B01F 5/04** (2006.01); **F01K 23/10** (2006.01)

CPC (source: EP US)

B01F 23/451 (2022.01 - EP US); **B01F 23/49** (2022.01 - EP US); **B01F 25/3132** (2022.01 - EP US); **B01F 35/71805** (2022.01 - EP US); **F01K 23/106** (2013.01 - EP US)

Citation (search report)

See references of WO 0227154A1

Designated contracting state (EPC)

DE ES GB IE PT

DOCDB simple family (publication)

EP 1193373 A1 20020403; DE 50106221 D1 20050616; EP 1320665 A1 20030625; EP 1320665 B1 20050511; ES 2240527 T3 20051016; TW 541392 B 20030711; US 2004011049 A1 20040122; US 6874322 B2 20050405; WO 0227154 A1 20020404

DOCDB simple family (application)

EP 00121502 A 20000929; DE 50106221 T 20010917; EP 0110749 W 20010917; EP 01978376 A 20010917; ES 01978376 T 20010917; TW 90118999 A 20010803; US 38184703 A 20030328