

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

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Application

**EP 92900067 A 19911206**

Priority

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- 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).

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IPC 8 full level

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