Title (en)
THERMAL POWER PROCESS

Title (de)
WÄRMEKRAFTPROZESS

Title (fr)
TRAITEMENT D'ENERGIE THERMIQUE

Publication
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Application
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Abstract (en)
[origin: WO03076769A1] In a power generating system, particularly a gas turbine group, a gaseous process fluid is conducted inside a closed circuit. The gaseous process fluid flows through a compression device (1), a heater (6) and an expansion means (2), particularly a turbine. The gaseous process fluid is cooled inside at least one heat sink (11, 13), which is situated downstream from the expansion means, before it is returned into the compression device (1). According to the invention, at least one heat sink is configured as a waste heat steam generator inside of which a superheated quantity of steam (26) is generated that is admixed to the compressed gaseous process fluid. The steam, together with the gaseous process fluid, optionally flows through the heater (6) and is expanded together with the same. The expanded steam condenses in the waste heat steam generator (11) and in another heat sink (13). The condensate is processed inside a filter (16) and, while under pressure, is fed once again to the waste heat steam generator (11) via a feed pump (18). The closed process conduction enables the process fluids and the process filling to be freely selected for controlling output.

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F01K 21/04

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
See references of WO 03076769A1

Cited by
CN105317484A; CN108279572A

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