

Title (en)
Gas and steam turbine plant

Title (de)
Gas- und Dampfturbinenanlage

Title (fr)
Installation à turbines à gaz et à vapeur

Publication
EP 0822320 B1 20000712 (DE)

Application
EP 97117410 A 19950914

Priority
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Abstract (en)
[origin: DE4434526C1] The invention concerns a gas and steam turbine plant (1) in which the waste gas (A) from the gas turbine (2) is used to generate steam. In order to be able to select freely a gas turbine model irrespective of its performance and avoiding losses of waste gas both for a new plant and for re-equipping an existing plant, a first partial flow (t1) of the waste gas (A) from the gas turbine (2) is used as air for the combustion of a fossil fuel (B), and a second partial flow (t2) of the waste gas (A) from the gas turbine (2) is used for generating waste heat steam. In order to generate steam, a combination of a fossil-fired steam generator (14) and a waste heat steam generator (15) is connected downstream of the gas turbine (2) on the waste gas side, in each case via a partial flow pipe (18 and 28, respectively). The steam is generated by combustion of the fossil fuel (B) and the waste heat steam is generated in a common water-steam circuit (12) of the steam turbine (10).

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F01K 23/10

IPC 8 full level
F01K 23/10 (2006.01)

CPC (source: EP KR US)
F01K 23/10 (2013.01 - KR); **F01K 23/103** (2013.01 - EP US); **F01K 23/106** (2013.01 - EP US)

Cited by
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DE 4434526 C1 19960404; CN 1067137 C 20010613; CN 1155318 A 19970723; DE 59502433 D1 19980709; DE 59508574 D1 20000817; EP 0783619 A1 19970716; EP 0783619 B1 19980603; EP 0822320 A1 19980204; EP 0822320 B1 20000712; JP H10506165 A 19980616; KR 100385372 B1 20030819; KR 970706444 A 19971103; US 5887418 A 19990330; WO 9610124 A1 19960404

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