

Title (en)
THERMAL POWER PLANT

Publication
EP 0180093 B1 19880601 (DE)

Application
EP 85113145 A 19851016

Priority
DE 3439567 A 19841029

Abstract (en)
[origin: EP0180093A1] 1. Thermal power plant having a gas turbine (2), a heat recovery device (11, 13, 15, 17, 9, 12) connected to the gas turbine on its exhaust gas side, an energy transducer (3) associated with the heat recovery device, with associated condenser (34) and feed water container (30) for the heat recovery device, connected to the condenser on the outlet side by means of a condensate line (37), and also having an exhaust gas heat exchanger (14) connected to the heat recovery device on its exhaust gas side, which exchanger is connected to the feed water container (30) by means of a feed water supply line (38) and a feed water return line (39) forming a closed feed water circuit, characterized in that there is provided a bypass line (42) for condensate going from the condensate line (37) to the feed water inlet of the exhaust gas heat exchanger (14), and in that in the feed water supply line (38), in front of the connection point of the bypass line (42), seen in the direction of the feed water current, there is fitted a control valve (40) with a temperature sensor in the feed water supply line (38) behind the connection point of the bypass line (42), and with an associated regulator (46) which keeps the feed water inlet temperature for the exhaust gas heat exchanger (14) at a predetermined desired value by appropriate supply of feed water from the feed water container (30) into the feed water supply line (38).

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F01K 23/10

IPC 8 full level
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Cited by
EP0400370A3; CN107697494A; DE102010054963B4; CN102326025A; DE102013204396A1; WO2010094783A3

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