

Title (en)

System and method for feeding water for steam turbine plant

Title (de)

Anordnung und Methode für die Wasserspeisung einer Dampfturbinenanlage

Title (fr)

Système et procédé pour alimenter en eau une installation à turbines à vapeur

Publication

EP 1429074 A1 20040616 (EN)

Application

EP 03028207 A 20031209

Priority

JP 2002358221 A 20021210

Abstract (en)

A feed water system for feeding water from a condenser to a steam generator in a steam turbine plant. The feed water system has a feed water/condensate water pump (2) for pumping up water from a condenser; a control valve (4) disposed downstream of the feed water/condensate water pump; a heating line (8) disposed downstream of the control valve, the heating line including a heat exchanger (12) for heating water; a bypass line for bypassing the heating line downstream of the control valve; and inlet and outlet bypass (6, 14) valves for water selectively flowing through either the heating line or the bypass line. The inlet and/or outlet bypass valves are activated by pistons (28, 30) which are driven by water pressure. A valve-activation line (48) for providing water pressure to the pistons is branched from a point between the feed water/condensate water pump and the control valve. <IMAGE>

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F22D 1/32; **F01K 7/38**

IPC 8 full level

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CPC (source: EP)

F22D 1/325 (2013.01)

Citation (search report)

- [A] DE 2727185 A1 19781221 - BABCOCK AG
- [A] DE 2164631 A1 19730705 - BABCOCK & WILCOX AG
- [A] EP 1241323 A1 20020918 - SIEMENS AG [DE]

Cited by

CN114370631A; CN104832897A; EP2224164A1; AU2009315819B2; US9593844B2; WO2010054934A3

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