

Title (en)

METHOD FOR THE REGULATION OF THE FEED WATER FLOW IN A STEAM PLANT

Publication

**EP 0308596 B1 19911211 (DE)**

Application

**EP 88111049 A 19880711**

Priority

CH 365087 A 19870922

Abstract (en)

[origin: JPS6490902A] PURPOSE: To lessen the effect of disturbance by comparing the difference between the inlet steam temperature and the saturation temperature of a water separator with a critical temperature and controlling water supply depending on the superheated steam temperature if the difference is close to zero and depending on the water level if the difference exceeds the critical value. CONSTITUTION: Steam generated from an evaporator 3 is separated by a water separator 4 and fed through steam superheaters 5, 5' to a turbine 10. Temperature of steam entering into the water separator 4 is detected by a detector 16 and if the difference  $\Delta T$  from a saturation temperature 50 corresponding the signal from a pressure detector 51 exceeds a critical value G, a control element 70 turns a switching element 7 to second contact 37 side thus controlling a water supply pump 2 through a PID controller 32 and a controller 6 based on the superheated steam temperature detected by a detector 30. IF  $\Delta T - G \geq 0$ , the element 7 is turned to first contact 27 side and the water supply pump 2 is controlled based on the sum of a signal from a PID controller 22 and a signal from a flowmeter 25 thus ensuring disturbance free switching control depending on dry/wet of steam.

IPC 1-7

**F22B 35/10**

IPC 8 full level

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CPC (source: EP US)

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