

Title (en)

Apparatus for the load-dependent regulation of the feedwater flow in a forced circulation steam generator.

Title (de)

Einrichtung zum lastabhängigen Regeln der Speisewassermenge eines Zwanglaufdampferzeugers.

Title (fr)

Dispositif réglage en fonction de la charge du débit d'eau d'alimentation d'un générateur de vapeur à circulation forcée.

Publication

EP 0507730 B1 19950301 (DE)

Application

EP 92810190 A 19920317

Priority

CH 102191 A 19910405

Abstract (en)

[origin: EP0507730A1] The apparatus has a feedwater quantity measuring member (10, 10'), a controller (23) with an integrator (24) and a regulating member (8) for the feedwater quantity as well as a temperature measuring member (18) arranged in the superheating region. The controller (23) is supplied with a set value (21) for the temperature as well as the actual value therefor. The apparatus also has a device (31) which works in the manner of an observer, contains a number of delay members (33, 34, 35) connected in series and is connected at a first input to the output of the feedwater quantity measuring member (10, 10') and at a second input to the output of the temperature measuring member (18). The outputs (39, 40, 41) of this device (31) are connected to an addition point (26) connected downstream of the output of the integrator (24). There is furthermore arranged between the addition point (26) and the output of the controller (23) a multiplication member (27), which is supplied with a signal (y) coming from a function generator (51) in addition to the signal coming from the addition point (26). Connected between the first input of the device (31) and the first delay member (33) is an inverse division member (32) which is supplied with the signal (y) delivered by the function generator (51) in addition to the signal coming from the feedwater quantity measuring member (10, 10').

IPC 1-7

F22B 35/10

IPC 8 full level

F22B 35/10 (2006.01)

CPC (source: EP KR)

F22B 35/00 (2013.01 - KR); **F22B 35/101** (2013.01 - EP)

Cited by

CN105020693A; DE102010042458A1; US9222373B2

Designated contracting state (EPC)

BE CH DK LI NL

DOCDB simple family (publication)

EP 0507730 A1 19921007; **EP 0507730 B1 19950301**; DK 0507730 T3 19950731; KR 100205516 B1 19990701; KR 920020121 A 19921120; TW 211063 B 19930811

DOCDB simple family (application)

EP 92810190 A 19920317; DK 92810190 T 19920317; KR 920005479 A 19920402; TW 81102490 A 19920401