

Title (en)
Steam cycle of a power plant

Title (de)
Wasserdampfkreislauf einer Kraftwerksanlage

Title (fr)
Cycle à vapeur d'une centrale électrique

Publication
EP 1806533 A1 20070711 (DE)

Application
EP 06000183 A 20060105

Priority
EP 06000183 A 20060105

Abstract (en)
The cycle (110) has an evaporator (12) and a super heater (24), where a condensate collector and a feedback pipeline are provided between the super heater and a steam generator for collecting the condensate in the super heater and for returning the condensate to the evaporator. The evaporator comprises a volume that is greater than a volume of the super heater. The condensate collector and the feedback pipe line comprise a pump (44) whose operation is controllable based on condensate amount in the collector and pipeline.

Abstract (de)
Wasserdampfkreislauf (110) einer Kraftwerksanlage mit wenigstens einem Verdampfer (12; 14; 16) und wenigstens einem Überhitzer (24; 26; 28), dadurch gekennzeichnet, dass zwischen dem Überhitzer (24; 26; 28) und dem Dampferzeuger (12; 14; 16) zum Auffangen von im Überhitzer (24; 26; 28) vorhandenem Kondensat und zur Rückführung des Kondensats in den Verdampfer (12; 14; 16) eine Kondensatsammel- und Rückführleitung (146) vorgesehen ist.

IPC 8 full level
F22G 3/00 (2006.01)

CPC (source: EP US)
F22G 3/003 (2013.01 - EP US)

Citation (search report)
• [A] US 6237542 B1 20010529 - NAKAJO MITSUNOBU [JP], et al
• [A] FR 2526523 A1 19831110 - STEIN INDUSTRIE [FR]
• [A] GB 788704 A 19580108 - ANDRE HUET
• [A] PEARSON M ET AL: "QUESTIONS ABOUT CONDENSATE QUENCHING, PRESTART PURGING", POWER, MCGRAW-HILL COMPAGNY, NEW YORK, NY, US, vol. 144, no. 4, July 2000 (2000-07-01), pages 41 - 42,44, XP000954502, ISSN: 0032-5929

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DE102016113007B4; DE102015206484A1; DE102012217717A1; DE102016113007A1; EP2360355A1; FR2956153A1; US9962664B2; US9926812B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1806533 A1 20070711; CN 101415992 A 20090422; CN 101415992 B 20110518; EG 25000 A 20110427; EP 1969285 A2 20080917; EP 1969285 B1 20160914; ES 2609393 T3 20170420; IL 192620 A0 20090922; IL 192620 A 20120229; US 2009165460 A1 20090702; US 8651067 B2 20140218; WO 2007077248 A2 20070712; WO 2007077248 A3 20081016

DOCDB simple family (application)
EP 06000183 A 20060105; CN 200780007911 A 20070104; EG 2008061112 A 20080629; EP 07703641 A 20070104; EP 2007050081 W 20070104; ES 07703641 T 20070104; IL 19262008 A 20080703; US 8738307 A 20070104