

Title (en)

METHOD AND DEVICE FOR THE CONTROLLED HEAT EXCHANGE BETWEEN A PRIMARY STEAM CIRCUIT AND HEAT CONSUMER

Publication

EP 0060290 B1 19840411 (DE)

Application

EP 81902649 A 19810921

Priority

DE 3035779 A 19800923

Abstract (en)

[origin: WO8201057A1] In a heat consumer (2), of which the supply conduit (12) is under a predetermined pressure and of which the return (13) is at a lower pressure, the steam, drawn off from the primary steam circuit in relation to the heat used by the consumer, is cooled down until condensation by drawing off heat by means of a secondary fluid and by maintaining a certain overpressure with respect to the pressure prevailing in the supply conduit (12). This overpressure is reduced to the pressure of the supply conduit (12) by means of a jet pump which allows a drive force to be obtained for the supply conduit (12) and the addition to the supply conduit heated secondary fluid obtained by the cooling of steam. In order to avoid installing an overpressure pump upstream of the jet pump while eliminating superfluous valves and connections, the condensate is accumulated to set the heat consumer temperature and the accumulation of condensate is exclusively set by adjusting the ejection nozzle (10).

IPC 1-7

F24D 3/00

IPC 8 full level

F24D 1/00 (2006.01); **F01K 17/02** (2006.01); **F01K 19/08** (2006.01); **F24D 3/00** (2006.01); **F24D 3/02** (2006.01); **F24D 9/02** (2006.01)

CPC (source: EP US)

F01K 17/02 (2013.01 - EP US); **F01K 19/08** (2013.01 - EP US); **F24D 3/00** (2013.01 - EP US)

Citation (examination)

WO 8103680 A1 19811224 - BAELZ H

Designated contracting state (EPC)

AT CH FR GB LI NL SE

DOCDB simple family (publication)

WO 8201057 A1 19820401; BR 8108804 A 19820824; DE 3035779 A1 19820506; DE 3035779 C2 19891221; DK 196382 A 19820430; EP 0060290 A1 19820922; EP 0060290 B1 19840411; JP S57501541 A 19820826; NO 821470 L 19820504; RO 84515 A 19840621; RO 84515 B 19840830; SU 1416062 A3 19880807; US 4480785 A 19841106

DOCDB simple family (application)

DE 8100149 W 19810921; BR 8108804 A 19810921; DE 3035779 A 19800923; DK 196382 A 19820430; EP 81902649 A 19810921; JP 50312981 A 19810921; NO 821470 A 19820504; RO 10759382 A 19820519; SU 3444076 A 19820521; US 38538782 A 19820517