

Title (en)
HEAT EXCHANGE SYSTEM

Title (de)
WÄRMETAUSCHERANORDNUNG

Title (fr)
SYSTEME D'ECHANGE THERMIQUE

Publication
EP 1056975 A1 20001206 (DE)

Application
EP 99906210 A 19990128

Priority
• DE 19806238 A 19980216
• EP 9900541 W 19990128

Abstract (en)
[origin: WO9941547A1] The invention relates to a heat exchange system used to preheat the main condensate in power station processes. Two welded plate heat exchangers (11, 12) are mounted in a cylindrical housing (15) and connected to each other by means of an integrated intermediate chamber (13). A separating wall (17) which separates two heating chambers (NDV1a and NDV1b) in a pressure-tight manner is incorporated into the housing in the area of the intermediate chamber (13). The separating wall has an opening cut to fit the circumference of the intermediate chamber and is welded to both said intermediate chamber (13) and to the housing (15). The heating condensate of the first heating chamber (NDV1a) is pushed into the intermediate chamber (13) via a condensate lift (50) and there mixed with the main condensate. The heating condensate from the second heating chamber (NDV1b) is cascaded into the first heating chamber via an adjustable choke (60). The heat exchange system is characterized in that it has a compact structure and offers more effective preheating of the main condensate.

IPC 1-7
F22D 1/32; **F28D 9/00**

IPC 8 full level
F22D 1/32 (2006.01); **F28D 9/00** (2006.01)

CPC (source: EP)
F22D 1/32 (2013.01)

Citation (search report)
See references of WO 9941547A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)
WO 9941547 A1 19990819; AT E216765 T1 20020515; DE 19806238 C1 19990415; DE 59901298 D1 20020529; EP 1056975 A1 20001206; EP 1056975 B1 20020424; PL 342214 A1 20010521; TR 200002365 T2 20001221

DOCDB simple family (application)
EP 9900541 W 19990128; AT 99906210 T 19990128; DE 19806238 A 19980216; DE 59901298 T 19990128; EP 99906210 A 19990128; PL 34221499 A 19990128; TR 200002365 T 19990128