

Title (en)

A DEVICE AND A METHOD FOR REMOVING DISSOLVED GASES FROM A LIQUID HEAT EXCHANGE MEDIUM IN A HEAT EXCHANGE SYSTEM AND A HEAT EXCHANGE SYSTEM

Title (de)

EIN EINRICHTUNG ZUR ENTFERNUNG VON GELÖSTEM GAS AUS EINER FLÜSSIGEN WÄRMETAUSCH-FLÜSSIGKEIT IN EINEM WÄRMEÜBETRAGUNGS-SYSTEM

Title (fr)

DISPOSITIF ET PROCEDE PERMETTANT D'ELIMINER LES GAZ DISSOUS D'UN MILIEU LIQUIDE D'ECHANGE DE CHALEUR CONTENU DANS UN SYSTEME D'ECHANGE DE CHALEUR, ET SYSTEME D'ECHANGE DE CHALEUR

Publication

EP 1525423 A2 20050427 (EN)

Application

EP 03700981 A 20030121

Priority

- IE 0300006 W 20030121
- IE 20020053 A 20020121
- IE 20020862 A 20021106

Abstract (en)

[origin: WO03060384A2] A device 10 for removing dissolved air and oxygen from water heat exchange medium of a heat exchange system 1 comprises a housing 11 defining a pressure reduction chamber 12. An upper inlet port 54 and a lower outlet port 55 connect the pressure reduction chamber 12 to flow and return pipes 14, 15 respectively of a heat source circuit 3, and lower inlet ports 60, 61 and upper outlet ports 58, 59 connect the pressure reduction chamber 12 to flow and return pipes 16, 17 of first and second heat exchange circuits 4, 5 of the heat exchange system 1. The pressure reduction chamber 12 is sized and the inlet ports 54, 60, 61 are located so that water heat exchange medium entering the pressure reduction chamber 12 expands, thereby reducing the pressure of the water heat exchange medium and releasing dissolved gases from the water heat exchange medium. The released gases are vented through the upper inlet port 54 to a header tank 25 to atmosphere.

IPC 1-7

F24D 19/08

IPC 8 full level

B01D 19/00 (2006.01); **F24D 19/08** (2006.01); **F28D 15/00** (2006.01)

CPC (source: EP)

F24D 19/083 (2013.01)

Citation (search report)

See references of WO 03060384A2

Citation (third parties)

Third party :

EP 1264146 A1 20021211 - CREMIN TIMOTHY [IE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

WO 03060384 A2 20030724; **WO 03060384 A3 20040415**; AU 2003202123 A1 20030730; EP 1525423 A2 20050427; IE S20030026 A2 20030917

DOCDB simple family (application)

IE 0300006 W 20030121; AU 2003202123 A 20030121; EP 03700981 A 20030121; IE S20030026 A 20030121