

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ECHANGEUR DE CHALEUR

Publication
EP 0902872 A1 19990324 (EN)

Application
EP 97924121 A 19970529

Priority
• GB 9701453 W 19970529
• GB 9611704 A 19960605

Abstract (en)
[origin: WO9746846A1] The present invention relates to a heat exchanger (1) and in particular to a heat exchanger comprising a static mixer device (6) element (8) having a heat exchange surface in thermal connection with a temperature control means (7). Very efficient temperature control of fluids (17) can be achieved with the heat exchanger which produces a very thorough mixing of the fluid flow so that the fluid (17) in contact with the heat exchange surface (8) is repeatedly exchanged with other parts of the fluid flow so as to bring different parts of the fluid into contact with the heat exchange surface until substantially the whole of the fluid flow has been contacted by the heat exchanger (1) thereby facilitating a particularly accurate and uniform control of the temperature of the fluid flow. Fluids that may have their temperature controlled with the heat exchanger invention may be organic and/or inorganic and include for example water, biological fluids such as blood or plasma, food products such as mayonnaise, ice cream and industrial products such as paints, chemicals.

IPC 1-7
F28F 27/00; **F28F 13/12**

IPC 8 full level
F28F 1/40 (2006.01); **F28D 7/10** (2006.01); **F28F 13/12** (2006.01); **F28F 27/00** (2006.01)

CPC (source: EP KR)
F28F 1/40 (2013.01 - KR); **F28F 13/12** (2013.01 - EP); **F28F 27/00** (2013.01 - EP)

Citation (search report)
See references of WO 9746846A1

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

DOCDB simple family (publication)
WO 9746846 A1 19971211; AU 2969297 A 19980105; EP 0902872 A1 19990324; GB 9611704 D0 19960807; JP 2000511628 A 20000905; KR 20000034779 A 20000626

DOCDB simple family (application)
GB 9701453 W 19970529; AU 2969297 A 19970529; EP 97924121 A 19970529; GB 9611704 A 19960605; JP 50030398 A 19970529; KR 19980709812 A 19981202