

Title (en)

Cast, light-metal, polygonal heat exchanger having a spiral-shaped water duct

Title (de)

Gegossener, leichtmetall, polygonaler Wärmetauscher mit spiralförmiger Wasser-leitung

Title (fr)

Echangeur de chaleur coulé, en métal léger, polygonal avec conduite d'eau en forme de spirale

Publication

EP 0794393 A1 19970910 (EN)

Application

EP 97200704 A 19970310

Priority

NL 1002562 A 19960308

Abstract (en)

A heat exchanger, manufactured from light metal by means of casting technique, comprising at least a water duct, a burner space and elements increasing the heat-transferring area, wherein the heat exchanger (1) comprises a closed, polygonal or bent inner wall (2), wherein the water duct (5) extends spiral-wise along the outside of the inner wall (2) and the burner space (11) extends inside the inner wall (2), wherein at least in a portion of the heat exchanger on the inside, the elements (6) increasing the heat-transferring area such as projections and/or partitions extend from the inner wall (2), preferably in at least two directions that include an angle relative to each other. <IMAGE>

IPC 1-7

F24H 1/26; **F24H 1/43**; **F24H 9/00**

IPC 8 full level

F24H 1/26 (2006.01); **F24H 1/43** (2006.01); **F24H 9/00** (2006.01); **F28D 7/02** (2006.01); **F28F 3/02** (2006.01)

CPC (source: EP)

F24H 1/26 (2013.01); **F24H 1/43** (2013.01); **F24H 9/0026** (2013.01); **F28D 7/026** (2013.01); **F28F 3/022** (2013.01)

Citation (search report)

- [X] FR 695311 A 19301213 - GAWA PATENTVERWALTUNGS A G
- [A] FR 854120 A 19400405
- [A] EP 0157893 A1 19851016 - KREIS TRUMA GERAETEBAU [DE]

Cited by

NL1010300C2; EP1450114A1; CN104848527A; EP0994313A1; EP3542922A1; EP4030113A1; NL2027319B1; US11480397B2; US11781819B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0794393 A1 19970910; **EP 0794393 B1 20011219**; AT E211245 T1 20020115; DE 69709207 D1 20020131; DE 69709207 T2 20020822; NL 1002562 C2 19970909

DOCDB simple family (application)

EP 97200704 A 19970310; AT 97200704 T 19970310; DE 69709207 T 19970310; NL 1002562 A 19960308