

Title (en)
HEAT TRANSFER ENHANCING DEVICE

Publication
EP 0275813 B1 19910227 (EN)

Application
EP 87630278 A 19871223

Priority
US 94734986 A 19861229

Abstract (en)
[origin: EP0275813A1] In a heat exchanger, a convoluted plate (106) disposed in a fluid stream flowing in an axial direction generates adjacent counterrotating, large scale axial vortices downstream thereof adjacent a wall (100) over which the fluid flows. The convoluted plate (106) is constructed to produce minimum pressure losses, while the vortices increase the heat transfer rate between the fluid and the wall (100).

IPC 1-7
F28F 1/32; **F28F 3/02**; **F28F 13/12**

IPC 8 full level
F28F 1/32 (2006.01); **F28F 3/02** (2006.01); **F28F 13/02** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP KR)
F28F 1/32 (2013.01 - KR); **F28F 1/325** (2013.01 - EP); **F28F 3/02** (2013.01 - EP); **F28F 13/02** (2013.01 - EP); **F28F 13/12** (2013.01 - EP KR)

Cited by
EP1331464A3; CN107024137A; DE19718064A1; DE19718064B4; CN110953901A; US8516791B2; DE102011006793A1; WO2012136765A1

Designated contracting state (EPC)
FR GB IT

DOCDB simple family (publication)
EP 0275813 A1 19880727; **EP 0275813 B1 19910227**; BR 8707080 A 19880802; JP 2520680 B2 19960731; JP S63194193 A 19880811; KR 880007993 A 19880830; KR 950014054 B1 19951120

DOCDB simple family (application)
EP 87630278 A 19871223; BR 8707080 A 19871228; JP 33682387 A 19871229; KR 870015187 A 19871229