

Title (en)

HEAT EXCHANGER WITH SPACING COIL(S) AND HELICAL RIB(S)

Title (de)

WÄRMETAUSCHER MIT ABSTANDSSPULE/N UND SPIRALENFÖRMIGER/N LAMELLE/N

Title (fr)

ECHANGEUR DE CHALEUR A SERPENTIN(S) ET NERVURE(S) HELICOÏDALE(S) D'ECARTEMENT

Publication

**EP 1769206 B1 20080423 (FR)**

Application

**EP 05790864 A 20050720**

Priority

- FR 2005001858 W 20050720
- FR 0408119 A 20040722
- US 59124504 P 20040726

Abstract (en)

[origin: US2006016586A1] The invention concerns a heat exchanger comprising a housing having an internal wall defining at least one internal chamber incorporating at least one core having a wall defining in the chamber, with the internal wall of the housing across from it, at least one exchange cavity comprising at least one tubular hollow coil having ends passing through the housing to make it possible for it to be supplied with a primary fluid, at least one inlet and at least one outlet that are axially opposite for circulation of a secondary liquid in the exchange cavity in contact with each coil and at least one tangential spreader rib, extending in projection with respect to a wall across from the coil and not parallel to the axial circulation direction, but adapted in order not to inhibit the circulation of the secondary liquid. The thermal exchanger according to the invention comprises at least one tangential helical rib and at least one coil having different winding directions.

IPC 8 full level

**F28D 7/02** (2006.01); **F28F 9/013** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP US)

**F28D 7/022** (2013.01 - EP US); **F28D 7/024** (2013.01 - EP US); **F28D 7/026** (2013.01 - EP US); **F28F 9/00** (2013.01 - EP US); **F28F 9/013** (2013.01 - EP US); **F28F 13/12** (2013.01 - EP US); **F28F 21/067** (2013.01 - EP US)

Designated contracting state (EPC)

DE ES FR IT

DOCDB simple family (publication)

**US 2006016586 A1 20060126**; **US 7261149 B2 20070828**; AU 2005276357 A1 20060302; AU 2005276357 B2 20091112; CA 2574284 A1 20060302; CA 2574284 C 20120417; DE 602005006281 D1 20080605; DE 602005006281 T2 20090507; EP 1769206 A1 20070404; EP 1769206 B1 20080423; ES 2306214 T3 20081101; WO 2006021659 A1 20060302

DOCDB simple family (application)

**US 18628505 A 20050721**; AU 2005276357 A 20050720; CA 2574284 A 20050720; DE 602005006281 T 20050720; EP 05790864 A 20050720; ES 05790864 T 20050720; FR 2005001858 W 20050720