

Title (en)
Heat exchanger for water heating apparatuses and method for producing the same

Title (de)
Wärmetauscher zur Warmwasserbereitung und Verfahren zu dessen Herstellung

Title (fr)
Echangeur de chaleur pour un chauffe-eau et sa méthode de fabrication

Publication
EP 0874209 A1 19981028 (EN)

Application
EP 97830190 A 19970424

Priority
EP 97830190 A 19970424

Abstract (en)
A heat exchanger (1), particularly adapted for water heating apparatuses, comprises a plurality of tubes (10) for circulating a cooling fluid, including a substantially spiral-shaped central portion (11) and at least one straight end portion (12,13) extending substantially perpendicularly to the spiral-shaped portion (11). The tubes (10) are angularly offset from one another within an outer vessel (2) with the interposition of spacer means (15) so as to arrange the spiral-shaped portions (11) in adjacent parallel planes (π). Advantageously, the heat exchanger (1) allows to achieve a high ratio of heat transfer surface area to overall volume and affords compact size and lightweight features in addition to a high thermodynamic efficiency.
<IMAGE>

IPC 1-7
F28D 7/04

IPC 8 full level
F28D 7/04 (2006.01)

CPC (source: EP)
F28D 7/04 (2013.01)

Citation (applicant)
WO 9416272 A1 19940721 - LE MER JOSEPH [FR]

Citation (search report)
• [YA] FR 2523286 A1 19830916 - WIELAND WERKE AG [DE]
• [YA] US 3499484 A 19700310 - LANZONI GIANLUIGI
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Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)
EP 0874209 A1 19981028

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EP 97830190 A 19970424