

Title (en)
Heat exchanger

Title (de)
Wärmetauscher

Title (fr)
Echangeur de chaleur

Publication
EP 1669689 A3 20101117 (DE)

Application
EP 05026416 A 20051203

Priority
DE 202004018968 U 20041208

Abstract (en)
[origin: EP1669689A2] Heat exchanger comprises deviating elements (4) for deviating a flow arranged in deviating zones of a water channel (1) which is spaced from the channel wall (3). The deviating elements extend over the whole length of one deviating zone and correspond with the contour of the channel wall. Preferred Features: At least two curved deviating elements are provided over the whole length of one deviating zone and are spaced on the extended axis of the separating wall (2) and/or on the extended axis of an opening (5) in the external channel wall.

IPC 8 full level
F24H 1/38 (2006.01); **F24H 9/00** (2006.01); **F28D 9/00** (2006.01); **F28F 3/12** (2006.01); **F28F 13/06** (2006.01)

CPC (source: EP)
B22D 29/001 (2013.01); **F24H 1/38** (2013.01); **F24H 9/0015** (2013.01); **F28D 9/0081** (2013.01); **F28F 13/06** (2013.01); **F28F 2250/102** (2013.01)

Citation (search report)
• [Y] DE 10236665 A1 20030227 - GRUPPO IMAR S P A [IT]
• [Y] FR 2317616 A1 19770204 - AIR IND [FR]
• [Y] FR 1061664 A 19540414 - RUDOLF OTTO MEYER
• [YD] EP 0287142 A2 19881019 - RADSON BV [NL]

Cited by
WO2019008005A1; EP3758197A1; CN103609003A; US9647510B2; US9927146B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
DE 202004018968 U1 20050210; EP 1669689 A2 20060614; EP 1669689 A3 20101117

DOCDB simple family (application)
DE 202004018968 U 20041208; EP 05026416 A 20051203