Title (en)

METAL HEAT EXCHANGER TUBE

Title (de)

METALLISCHES WÄRMEAUSTAUSCHERROHR

Title (fr)

TUBE D'ÉCHANGEUR DE CHALEUR MÉTALLIQUE

Publication

EP 3111153 A1 20170104 (DE)

Application

EP 15704718 A 20150210

Priority

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- EP 2015000278 W 20150210

Abstract (en)

[origin: WO2015128061A1] The invention relates to a metal heat exchanger tube, comprising integral ribs formed on the outside of the tube. Said ribs have a rib base, rib flanks, and a rib tip. The rib base protrudes substantially radially from the tube wall. A channel is formed between the ribs, in which channel additional structures spaced apart from each other are arranged. The additional structures divide the channel between the ribs into segments. The additional structures reduce the cross-sectional area in the channel between two ribs through which flow is possible by at least 60% locally and, at least thereby, limit a fluid flow in the channel during operation.

IPC 8 full level

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CPC (source: EP KR US)

F25B 39/00 (2013.01 - US); **F28D 21/0017** (2013.01 - US); **F28F 1/36** (2013.01 - EP KR US); **F28F 1/422** (2013.01 - EP KR US); **F28F 13/08** (2013.01 - US); **F28F 13/187** (2013.01 - EP KR US); **F28F 21/08** (2013.01 - KR); F25B 39/02 (2013.01 - US); F25B 2339/0242 (2013.01 - US); F28D 2021/0064 (2013.01 - US)

Citation (search report)

See references of WO 2015128061A1

Cited by

DE202020005628U1; DE202020005625U1; WO2022089773A1; WO2022089772A1

Designated contracting state (EPC)

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