

Title (en)
A HEAT EXCHANGER TUBE

Title (de)
WÄRMETAUSCHERROHR

Title (fr)
TUBE D'ÉCHANGEUR THERMIQUE

Publication
EP 2459954 A4 20140521 (EN)

Application
EP 10804010 A 20100729

Priority
• IN 1735MU2009 A 20090729
• IN 2010000499 W 20100729

Abstract (en)
[origin: WO2011013144A2] A heat exchanger tube (700) is disclosed wherein a tubular body (702) defined by a wall having an exterior surface (704), an interior surface (706) and a conduit is provided. A plurality of ovular indentations (718) is formed in the wall extending from the exterior surface (704) and protruding through the interior surface (706) of the wall. The heat exchanger tube (700) enables in enhancement of heat transfer efficiency and operates efficiently over a wide range of Reynolds number with lower frictional losses. Further, the heat exchanger tube (700) is cost effective and economical to operation.

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F28F 13/12 (2006.01)

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Citation (search report)
• [X] DE 1836063 U 19610803 - STEEB CHRISTIAN [DE]
• [X] US 6006823 A 19991228 - KIKNADZE GENNADY IRAKLIEVICH [RU], et al
• [X] EP 1715278 A2 20061025 - DELPHI TECH INC [US]
• [X] DE 20100116 U1 20010322 - HDE METALLWERK GMBH [DE]
• See references of WO 2011013144A2

Cited by
US11709021B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

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