

Title (en)

Flow conduit with cross-section discontinuity

Title (de)

Strömungskanal mit Querschnittssprung

Title (fr)

Conduit d'écoulement à discontinuité de section transversale

Publication

EP 0999367 B1 20030212 (DE)

Application

EP 98811112 A 19981106

Priority

EP 98811112 A 19981106

Abstract (en)

[origin: EP0999367A1] The heat generator has vortex producing elements (20) arranged upstream of a step (10) in the wall (8) of a flow channel. The vortex producing elements are spaced apart with a lateral pitch along a line lying transverse to the main flow direction. The lateral pitch is smaller than half a wavelength corresponding to a limit frequency in the main flow upstream of the step, to destroy coherent periodic vortices released at a frequency below the limit frequency.

IPC 1-7

F15D 1/06

IPC 8 full level

F23R 3/18 (2006.01); **F15D 1/06** (2006.01); **F17D 1/20** (2006.01); **F23R 3/04** (2006.01)

CPC (source: EP US)

F15D 1/0045 (2013.01 - EP US); **F15D 1/06** (2013.01 - EP US); **F23R 3/045** (2013.01 - EP US); **F23D 2209/20** (2013.01 - EP US); **F23R 2900/00014** (2013.01 - EP US)

Citation (examination)

EP 0669500 A1 19950830 - ABB MANAGEMENT AG [CH]

Cited by

CN107806568A; US10843746B1; US7241138B2

Designated contracting state (EPC)

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DOCDB simple family (application)

EP 98811112 A 19981106; CN 99122360 A 19991103; DE 59807195 T 19981106; JP 31703399 A 19991108; US 43117999 A 19991101