

Title (en)  
Heat exchanger

Title (de)  
Wärmeaustauscher

Title (fr)  
Echangeur de chaleur

Publication  
**EP 1439354 B1 20090211 (DE)**

Application  
**EP 03027971 A 20031205**

Priority  
DE 10301145 A 20030114

Abstract (en)  
[origin: EP1439354A1] The heat exchanger has a finned tube (2) in a casing (1). The tube has primary (3) and secondary (4) sectors aligned with horizontal (10) and vertical (12) center axes respectively. There is a gas burner (13) in the primary sector and a channel (15) in the secondary sector, formed by a central displacement body (18) and the casing.

IPC 8 full level  
**F24H 1/43** (2006.01); **F24H 8/00** (2006.01); **F24H 9/14** (2006.01)

CPC (source: EP)  
**F24H 1/43** (2013.01)

Cited by  
EP1918659A3; ITPD20080239A1

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

DOCDB simple family (publication)  
**EP 1439354 A1 20040721; EP 1439354 B1 20090211**; AT E422650 T1 20090215; DE 10301145 A1 20040722; DE 50311167 D1 20090326

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**EP 03027971 A 20031205**; AT 03027971 T 20031205; DE 10301145 A 20030114; DE 50311167 T 20031205