

Title (en)  
THERMOELECTRIC MODULES FOR EXHAUST SYSTEM

Title (de)  
THERMOELEKTRISCHE MODULE FÜR EIN ABGASSYSTEM

Title (fr)  
MODULES THERMOÉLECTRIQUES DESTINÉS À UN SYSTÈME D'ÉCHAPPEMENT

Publication  
**EP 2625727 A4 20140611 (EN)**

Application  
**EP 11830269 A 20110929**

Priority

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- EP 10186366 A 20101004
- IB 2011054295 W 20110929
- EP 11830269 A 20110929

Abstract (en)  
[origin: WO2012046170A1] In an integrated thermoelectric module consisting of p- and n-conducting thermoelectric material pieces which are alternately connected to one another via electrically conductive contacts, a thermoelectric module(19) is thermally conductively connected to a micro heat exchanger(13) which comprises a plurality of continuous channels having a diameter of at most 1mm, through which a fluid heat exchanger medium can flow.

IPC 8 full level  
**H01L 35/00** (2006.01); **H01L 35/30** (2006.01); **H01L 35/32** (2006.01)

CPC (source: EP KR)  
**F01N 5/025** (2013.01 - EP); **H10N 10/00** (2023.02 - KR); **H10N 10/13** (2023.02 - EP KR); **H10N 10/17** (2023.02 - KR); **F28D 20/02** (2013.01 - EP); **F28F 2260/02** (2013.01 - EP); **Y02T 10/12** (2013.01 - EP)

Citation (search report)

- [Y] US 2005217714 A1 20051006 - NISHIJIMA YOSHIAKI [JP], et al
- [Y] US 2005111188 A1 20050526 - BHATTACHARYA ANANDAROOP [US], et al
- See references of WO 2012046170A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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DOCDB simple family (application)  
**IB 2011054295 W 20110929**; BR 112013007718 A 20110929; CN 201180058155 A 20110929; EP 11830269 A 20110929; JP 2013532298 A 20110929; KR 20137011384 A 20110929; TW 100135936 A 20111004