

Title (en)  
HEAT EXCHANGER FOR SMALL COMPONENTS

Title (de)  
WÄRMEAUSTAUSCHER FÜR KLEINBAUTEILE

Title (fr)  
ECHANGEUR THERMIQUE POUR COMPOSANTS DE PETITE TAILLE

Publication  
**EP 1894238 A1 20080305 (DE)**

Application  
**EP 06754389 A 20060616**

Priority  
• EP 2006005776 W 20060616  
• DE 102005029074 A 20050623

Abstract (en)  
[origin: DE102005029074B3] The exchanger has an inlet channel (2) with a metal connection pipe (21) continuously expanding itself to a heat exchanging unit (3) at an inlet side. A discharge channel (4) starts from the unit (3) and continuously narrows itself up to a metal connection pipe (41). The unit (3) has an inner structure that runs in a flow direction for increasing a heat transfer and extends in an inner space from a lower side to an upper side.

IPC 8 full level  
**H01L 23/473** (2006.01); **F28F 3/04** (2006.01); **F28F 3/12** (2006.01); **F28F 9/26** (2006.01); **H01L 23/467** (2006.01)

CPC (source: EP US)  
**F28F 3/048** (2013.01 - EP US); **F28F 3/12** (2013.01 - EP US); **F28F 9/0263** (2013.01 - EP US); **H01L 23/473** (2013.01 - EP US); **F28D 2021/0029** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US)

Citation (search report)  
See references of WO 2006136325A1

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

DOCDB simple family (publication)  
**DE 102005029074 B3 20060810**; EP 1894238 A1 20080305; US 2009236083 A1 20090924; WO 2006136325 A1 20061228

DOCDB simple family (application)  
**DE 102005029074 A 20050623**; EP 06754389 A 20060616; EP 2006005776 W 20060616; US 92247706 A 20060616