

Title (en)  
TURBULATOR FIN FOR A TUBE-FIN ASSEMBLY ADAPTED FOR A HEAT EXCHANGER AND A FIN FORMING ROLL ADAPTED TO FORM SAID TURBULATOR FIN

Title (de)  
TURBULATORRIPPE FÜR ROHRRIPPENANORDNUNG FÜR WÄRMETAUSCHER UND RIPPENFORMROLLE ZUM FORMEN DER TURBULATORRIPPE

Title (fr)  
AILETTE DE TURBULATEUR POUR UN ENSEMBLE TUBES-AILETTES POUR UN ÉCHANGEUR DE CHALEUR ET ROULEAU DE FORMATION D'AILETTE CONÇU POUR FORMER LADITE AILETTE DE TURBULATEUR

Publication  
**EP 3040669 B1 20170816 (EN)**

Application  
**EP 15202900 A 20151229**

Priority  
PL 41081614 A 20141230

Abstract (en)  
[origin: EP3040669A1] Turbulator fin for a tube-fin assembly adapted for a heat exchanger, the turbulator fin comprising a corrugated sheet with a plurality of adjacent folds between a first transverse side of the sheet and a second transverse side of the sheet, each fold having a fixed fold height (h) delimited by adjacent fold lines and each fold having a fold length (L) in longitudinal direction of the sheet, characterized in that, the end fold forming the edge of the sheet of at least one transverse side of the sheet has a reduced fold height (hr) compared to the fixed fold height (h).

IPC 8 full level  
**F28F 1/40** (2006.01); **F28F 1/02** (2006.01); **F28F 3/02** (2006.01); **F28F 3/04** (2006.01); **F28F 3/06** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP)  
**F28F 1/02** (2013.01); **F28F 1/40** (2013.01); **F28F 3/025** (2013.01); **F28F 3/04** (2013.01); **F28F 3/06** (2013.01); **F28F 13/12** (2013.01)

Citation (opposition)  
Opponent : MAHLE International GmbH  
• DE 102006050319 A1 20070503 - DENSO CORP [JP]  
• EP 1090700 A2 20010411 - CALSONIC KANSEI CORP [JP]  
• US 4688311 A 19870825 - SAPERSTEIN Z PHILIP [US], et al  
• DE 102006006670 A1 20070823 - MODINE MFG CO [US]  
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• JP 2000097589 A 20000404 - SHOWA ALUMINUM CORP  
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• US 2007095514 A1 20070503 - INOUE TOMONORI [JP], et al  
• DE 102012211350 A1 20140102 - BEHR GMBH & CO KG [DE]

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EP4343253A1; EP3521745A1; WO2024061818A1

Designated contracting state (EPC)  
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