

Title (en)  
MECHANICALLY-ASSEMBLED HEAT EXCHANGER AND GASKET THEREFOR

Title (de)  
WÄRMETAUSCHER UND DICHTUNG FÜR DENSELBEN

Title (fr)  
ECHANGEUR DE CHALEUR ET JOINT D'ETANCHEITE POUR CET ECHANGEUR DE CHALEUR

Publication  
**EP 1809970 B1 20170719 (FR)**

Application  
**EP 05790857 A 20050721**

Priority  
• FR 2005001884 W 20050721  
• FR 0408460 A 20040730

Abstract (en)  
[origin: WO2006024734A1] The invention relates to a mechanically-assembled heat exchanger and to a gasket therefor. The inventive heat exchanger comprises a collector plate which is pierced with holes that are bordered by collars (24) in order to receive tubes (12) with the insertion of a gasket, such as to form a sleeve (34) on each tube (12). The aforementioned sleeve (34) is equipped with an inner wall (42) and an outer wall (44) and comprises an annular end (46) which extends beyond the collar (24). According to the invention, prior to assembly, the end (46) of the sleeve (34) has an extra thickness (48) of a chosen shape. The extra thickness (48) is arranged such as to press the inner wall (42) of the sleeve (34) against the tube (12) after assembly under the effect of an elastic return force close to the end (46). The invention is suitable for heat exchangers for motor vehicles.

IPC 8 full level  
**F28F 9/16** (2006.01); **F28F 9/14** (2006.01)

CPC (source: EP)  
**F28F 9/14** (2013.01); **F28F 9/165** (2013.01)

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)  
**FR 2873800 A1 20060203; FR 2873800 B1 20061124**; CN 100513981 C 20090715; CN 101010554 A 20070801; EP 1809970 A1 20070725; EP 1809970 B1 20170719; WO 2006024734 A1 20060309

DOCDB simple family (application)  
**FR 0408460 A 20040730**; CN 200580029129 A 20050721; EP 05790857 A 20050721; FR 2005001884 W 20050721