

Title (en)
COOLING FAN MODULE

Title (de)
KÜHLERLÜFTERMODUL

Title (fr)
MODULE VENTILATEUR DE RADIATEUR

Publication
EP 2737189 B1 20170712 (DE)

Application
EP 12727282 A 20120510

Priority
• DE 102011075801 A 20110513
• DE 102012207552 A 20120507
• EP 2012002004 W 20120510

Abstract (en)
[origin: WO2012156045A2] The invention relates to a cooling fan module for a motor vehicle, having a fan impeller which has a multiplicity of fan impeller blades which are connected to one another via a fan impeller outer ring, having a frame, on which the fan impeller is mounted, having an annular reverse flow guide device, which has an inner ring and an outer ring and which is designed to de-spin a reverse flow between the inner ring and the outer ring and to mix said reverse flow with the slot flow between inner ring and fan impeller outer ring.

IPC 8 full level
F01P 5/06 (2006.01)

CPC (source: EP KR US)
F01P 5/06 (2013.01 - EP US); **F04D 29/164** (2013.01 - EP US); **F04D 29/30** (2013.01 - KR); **F04D 29/32** (2013.01 - KR);
F04D 29/326 (2013.01 - EP US); **F04D 29/526** (2013.01 - EP US); **F04D 29/663** (2013.01 - EP US); **F04D 29/665** (2013.01 - EP US);
F04D 29/666 (2013.01 - EP US)

Citation (examination)
EP 1830072 A2 20070905 - BEHR GMBH & CO KG [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102012207552 A1 20121115; BR 112013029164 A2 20170131; CN 103649487 A 20140319; CN 103649487 B 20161123;
EP 2737189 A2 20140604; EP 2737189 B1 20170712; ES 2638590 T3 20171023; KR 101598678 B1 20160229; KR 20140020329 A 20140218;
US 2014186172 A1 20140703; US 9714666 B2 20170725; WO 2012156045 A2 20121122; WO 2012156045 A3 20140501;
WO 2012156045 A8 20130321

DOCDB simple family (application)
DE 102012207552 A 20120507; BR 112013029164 A 20120510; CN 201280034577 A 20120510; EP 12727282 A 20120510;
EP 2012002004 W 20120510; ES 12727282 T 20120510; KR 20137032752 A 20120510; US 201214117484 A 20120510