

Title (en)  
AZEOTROPE SPRAY COOLING SYSTEM

Title (de)  
AZEOTROPES SPRÜHKÜHLSYSTEM

Title (fr)  
SYSTEME DE REFROIDISSEMENT PAR PULVERISATION D'AZEOTROPE

Publication  
**EP 1766305 A4 20100113 (EN)**

Application  
**EP 05773675 A 20050715**

Priority  
• US 2005024770 W 20050715  
• US 58886204 P 20040715

Abstract (en)  
[origin: WO2006019767A1] An azeotrope spray cooling system for utilizing an azeotrope coolant for improving the performance of a spray cooling system. An azeotrope coolant is utilized within a two-phase thermal management system for thermally managing one or more heat producing devices. The characteristics of the azeotrope coolant may be adjusted for various types of thermal management applications by altering the components of the azeotrope coolant.

IPC 8 full level  
**F25D 17/02** (2006.01); **F25B 49/00** (2006.01); **F25D 23/12** (2006.01); **F28F 7/00** (2006.01); **F28F 13/06** (2006.01); **H05K 7/20** (2006.01)

CPC (source: EP)  
**C09K 5/04** (2013.01); **H01L 23/427** (2013.01); **H01L 23/4735** (2013.01); **F28D 15/0266** (2013.01); **H01L 2924/0002** (2013.01)

Citation (search report)  
• [X] US 6415619 B1 20020709 - BASH CULLEN E [US], et al  
• [X] US 6152215 A 20001128 - NIGGEMANN RICHARD EVERETT [US]  
• [A] EP 1380799 A2 20040114 - RAYTHEON CO [US]  
• [A] EP 0072145 A1 19830216 - BRITISH PETROLEUM CO PLC [GB]  
• [A] JP S6114282 A 19860122 - MITSUBISHI HEAVY IND LTD  
• [A] US 2002009585 A1 20020124 - ALBERT DONALD F [US], et al  
• [A] US 3965971 A 19760629 - ROGGENKAMP GEORGE H  
• See references of WO 2006019767A1

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)  
**WO 2006019767 A1 20060223**; CA 2572629 A1 20060223; EP 1766305 A1 20070328; EP 1766305 A4 20100113; JP 2008507136 A 20080306

DOCDB simple family (application)  
**US 2005024770 W 20050715**; CA 2572629 A 20050715; EP 05773675 A 20050715; JP 2007521588 A 20050715