

Title (en)  
LIQUID COOLED COLDPLATE

Title (de)  
FLÜSSIGKEITSGEKÜHLTE KÄLTEPLATTE

Title (fr)  
PLAQUE DE REFROIDISSEMENT REFROIDIE PAR LIQUIDE

Publication  
**EP 3295777 A4 20190123 (EN)**

Application  
**EP 16797099 A 20160516**

Priority  
• US 201562162195 P 20150515  
• US 201662332733 P 20160506  
• US 2016032730 W 20160516

Abstract (en)  
[origin: WO2016187131A1] A liquid cooled coldplate has a tub with an inlet port and an outlet port and a plurality of pockets recessed within a top surface of the tub. Each pocket has a peripheral opening and a ledge, the ledge disposed inwardly and downwardly from the peripheral opening. The inlet port and outlet port are in fluid communication with the pocket via an inlet slot and an outlet slot. A plurality of cooling plates are each received by a pocket and recessed within the pocket. Each cooling plate comprises an electronics side for receiving electronics and enhanced side for cooling the cooling plate. The enhanced side of the cooling plate comprises a plurality of pins formed by micro deformation technology. The tub may be formed by extrusion.

IPC 8 full level  
**H05K 7/20** (2006.01); **B21D 53/02** (2006.01)

CPC (source: EP)  
**H05K 7/20254** (2013.01); **H05K 7/20927** (2013.01)

Citation (search report)  
• [I] US 9003649 B1 20150414 - ROMERO GUILLERMO L [US], et al  
• [I] US 7197819 B1 20070403 - RINEHART LAWRENCE E [US], et al  
• [A] US 2012320529 A1 20121220 - LOONG SY-JENQ [US], et al  
• [A] US 2011079376 A1 20110407 - LOONG SY-JENQ [US], et al  
• See references of WO 2016187131A1

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)  
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DOCDB simple family (application)  
**US 2016032730 W 20160516**; CN 201680041429 A 20160516; EP 16797099 A 20160516; JP 2018511362 A 20160516