

Title (en)
FLEXIBLE TWO-PHASE COOLING SYSTEM

Title (de)
FLEXIBLES ZWEIPHASIGES KÜHLSYSTEM

Title (fr)
SYSTÈME DE REFROIDISSEMENT SOUPLE À DEUX PHASES

Publication
EP 3228163 A1 20171011 (EN)

Application
EP 15855266 A 20151023

Priority

- US 201462069301 P 20141027
- US 201462072421 P 20141029
- US 201562099200 P 20150101
- US 201514679026 A 20150406
- US 201514876575 A 20151006
- US 2015057028 W 20151023

Abstract (en)
[origin: WO2016069380A1] A flexible two-phase cooling apparatus for cooling microprocessors in servers can include a primary cooling loop, a first bypass, and a second bypass. The primary cooling loop can include a reservoir, a pump, an inlet manifold, an outlet manifold, and flexible cooling lines extending from the inlet manifold to the outlet manifold. The flexible cooling lines can be routable within server housings and can be fluidly connected to two or more series-connected heat sink modules that are mountable on microprocessors of the servers. The flexible cooling lines can be configured to transport low-pressure, dielectric coolant. The first bypass can include a first valve configured to regulate a first bypass flow of coolant through the first bypass. The second bypass can include a second valve configured to regulate a second bypass flow of coolant through the second bypass.

IPC 8 full level
H05K 7/20 (2006.01)

CPC (source: EP)
H05K 7/20809 (2013.01); **H05K 7/20818** (2013.01); **H05K 7/20827** (2013.01)

Citation (search report)
See references of WO 2016069380A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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US 2015057028 W 20151023; AU 2015339648 A 20151023; EP 15855266 A 20151023