

Title (en)
THERMAL TRANSFER DEVICE WITH REDUCED VERTICAL PROFILE

Title (de)
WÄRMEÜBERTRAGUNGSVORRICHTUNG MIT REDUZIERTEM VERTIKALPROFIL

Title (fr)
DISPOSITIF DE TRANSFERT THERMIQUE À PROFIL VERTICAL RÉDUIT

Publication
EP 2716147 A4 20150826 (EN)

Application
EP 11867056 A 20110527

Priority
US 2011038299 W 20110527

Abstract (en)
[origin: WO2012166086A1] A thermal transfer device having a reduced vertical profile. The device includes a condenser with substantially vertical internal cooling fins. An inlet conducts a thermal transfer fluid in a vapor state to the tops of the cooling fins where the vapor condenses and flows down the fins to the bottom of the condenser. The bottom of the condenser is angled towards an outlet for conducting the liquid thermal transfer fluid to a reservoir for holding the fluid. The inlet and the outlet are both positioned at a height above the level of the thermal transfer fluid in liquid state in the reservoir. The device may also include fins on the exterior of the condenser for providing cooling surfaces which do not contact the thermal transfer fluid in either the liquid or vapor states.

IPC 8 full level
H05K 7/20 (2006.01); **F25B 39/04** (2006.01); **H01L 23/427** (2006.01)

CPC (source: EP US)
F25B 39/04 (2013.01 - US); **H01L 23/427** (2013.01 - EP US); **H05K 7/20318** (2013.01 - EP US); **H05K 7/20336** (2013.01 - EP US);
H01L 2924/0002 (2013.01 - EP US)

C-Set (source: EP US)
H01L 2924/0002 + **H01L 2924/00**

Citation (search report)
• [Y] US 2003128508 A1 20030710 - FANEUF BARRETT M [US], et al
• [Y] US 2007006992 A1 20070111 - LIU TAY-JIAN [CN], et al

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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JP 2014517906 A 20140724; JP 6078054 B2 20170208; US 2014345829 A1 20141127

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