

Title (en)  
LOOP HEAT PIPE APPARATUS FOR HEAT TRANSFER AND THERMAL CONTROL

Title (de)  
LOOP-WÄRMEROHRVORRICHTUNG FÜR WÄRMEÜBERTRAGUNG UND WÄRMEREGELUNG

Title (fr)  
DISPOSITIF CALODUC EN BOUCLE POUR TRANSFERT ET RÉGULATION THERMIQUE

Publication  
**EP 2940416 B1 20170927 (EN)**

Application  
**EP 12832734 A 20121228**

Priority  
ES 2012070918 W 20121228

Abstract (en)  
[origin: EP2940416A1] Loop heat pipe apparatus (1) for heat transfer and thermal control, using a two-phase fluid as a working media and comprising: - at least one evaporator (2) to be connected with a heat source and comprising a thermal stabilization-compensation chamber (10) attached to the at least one evaporator (2) and a secondary capillary pump (40) located inside the thermal stabilization-compensation chamber (10), - at least one condenser (27) to be connected with a heat sink, - liquid lines (24) and vapour lines (28) connecting the at least one evaporator (2) and the at least one condenser (27), and - a remote compensation chamber (20), wherein the thermal stabilization-compensation chamber (10) comprises a two-phase reservoir (5) and a liquid accumulator reservoir (6) separated by a heat exchange surface (15), such that the remote compensation chamber (20) is hydraulically connected with the two-phase reservoir (5) and the liquid accumulator reservoir (6).

IPC 8 full level  
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**F28D 15/04** (2013.01 - US); **F28D 15/043** (2013.01 - EP US)

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EP3376148A1; CN111076582A; CN109539841A

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