

Title (en)  
LOOP-TYPE THERMOSIPHON AND STIRLING REFRIGERATOR

Title (de)  
KREISLAUF-THERMOSIPHON UND STIRLING-KÄLTEMASCHINE

Title (fr)  
THERMOSIPHON DU TYPE A BOUCLE ET REFRIGERATEUR A CYCLE DE STIRLING

Publication  
**EP 1493983 A4 20060607 (EN)**

Application  
**EP 03745945 A 20030407**

Priority  
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Abstract (en)  
[origin: CA2481477A1] A loop-type thermosiphon that is operable stably independently of fluctuation in thermal load, and a Stirling refrigerator using the loop-type thermosiphon. A loop-type thermosiphon where heat is carried by a working fluid from a high temperature heat source (5) has a heat absorption unit (1a), an evaporator (1) that takes away heat from the high temperature heat source through the heat absorption unit and evaporates the working fluid, a condenser (3) located at a higher place than the high temperature heat source and condenses the working fluid evaporated in the evaporator, and pipes (2, 4) interconnecting the evaporator and the condenser so as to form a loop. The working fluid (22) passed through the condenser (3) is brought into contact with the heat absorption unit (1a) before the fluid is stayed in a liquid container (21) for the working fluid so that heat exchange is carried out.

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**F28D 15/02**; **F25D 11/00**

IPC 8 full level  
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Citation (search report)  
• [X] PATENT ABSTRACTS OF JAPAN vol. 016, no. 429 (E - 1261) 8 September 1992 (1992-09-08)  
• See references of WO 03085345A1

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