

Title (en)  
FLEXIBLE HEAT PIPE

Title (de)  
FLEXIBLES WÄRMEROHR

Title (fr)  
CALODUC SOUPLE

Publication  
**EP 4237780 A1 20230906 (EN)**

Application  
**EP 20839214 A 20201209**

Priority  
BY 2020000013 W 20201209

Abstract (en)  
[origin: WO2022120456A1] Provided is a heat pipe (100, 200, 300, 400, 500, 600, 700) having an envelope (102, 202, 302) with working fluid, an inner layer of wick (108, 206, 504) and a flexible bellows (104). The envelope has a condenser end, an evaporator end, and an adiabatic section in between the condenser and the evaporator ends. The inner layer of wick is arranged on an inner surface of the envelope for transporting condensed working fluid from the condenser end to the evaporator end. The adiabatic section comprises a perforation of walls of the envelope forming a passage for a vapor and a compressed area (106, 204, 502) where walls of the envelope are offset towards a central axis of the envelope. The flexible bellows covers the compressed area and defines a channel (112) for the vapor with ends of the flexible bellows sealed to walls of the envelope outside of the perforation.

IPC 8 full level  
**F28D 15/02** (2006.01)

CPC (source: EP)  
**F28D 15/0233** (2013.01); **F28D 15/0241** (2013.01); **F28D 15/0275** (2013.01)

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022120456 A1 20220616**; CN 116601449 A 20230815; EP 4237780 A1 20230906; EP 4237780 B1 20240731

DOCDB simple family (application)  
**BY 2020000013 W 20201209**; CN 202080107785 A 20201209; EP 20839214 A 20201209