

Title (en)  
Liquid heating device

Title (de)  
Flüssigkeitsheizvorrichtung

Title (fr)  
Dispositif d'échauffement de liquide

Publication  
**EP 1475578 A1 20041110 (EN)**

Application  
**EP 03010188 A 20030506**

Priority  
EP 03010188 A 20030506

Abstract (en)  
A liquid heating device includes a pump (2) for pumping liquid, and a helical heating tube (3) receiving liquid sent by the pump. The two ends of the helical heating tube (3) are connected with two terminals (50,51) of electric power, and when a control system (6) is started, the helical heating tube (3) is heated up to produce high heat to heat up the liquid therein to a proper temperature, to boil it up or change it into vapor for practical use.  
<IMAGE>

IPC 1-7  
**F24H 1/10**; **F22B 1/28**

IPC 8 full level  
**F22B 1/28** (2006.01); **F24H 1/10** (2006.01)

CPC (source: EP)  
**F22B 1/282** (2013.01); **F24H 1/105** (2013.01)

Citation (search report)  
• [X] US 6189453 B1 20010220 - LIN YU-CHUAN [TW]  
• [A] US 5937141 A 19990810 - SWIATOSZ EDMUND [US]  
• [A] US 5706389 A 19980106 - POEHLER JOERG [DE]  
• [A] FR 784400 A 19350722

Cited by  
CN115164400A; US7801424B2; WO2017200407A1

Designated contracting state (EPC)  
DE ES GB

DOCDB simple family (publication)  
**EP 1475578 A1 20041110**; **EP 1475578 B1 20060315**; DE 60303975 D1 20060511; DE 60303975 T2 20061123

DOCDB simple family (application)  
**EP 03010188 A 20030506**; DE 60303975 T 20030506