

Title (en)  
AN OVERTEMPERATURE PROTECTION SYSTEM FOR A SOLAR WATER HEATING SYSTEM

Title (de)  
ÜBERTEMPERATURSCHUTZSYSTEM FÜR EIN SOLARENERGIE-WASSERERHITZUNGSSYSTEM

Title (fr)  
SYSTEME DE PROTECTION ANTI-SURCHAUFFE POUR CHAUFFE-EAU SOLAIRE

Publication  
**EP 1844268 A4 20121205 (EN)**

Application  
**EP 06701717 A 20060131**

Priority  
• AU 2006000115 W 20060131  
• AU 2005900451 A 20050204  
• AU 2006209786 A 20060131

Abstract (en)  
[origin: WO2006081608A1] The invention provides a solar hot water heating system including one or more solar energy absorbers (102) having at least a first fluid circulation path wherein, an over temperature path (119) is provided, the over temperature path including a pressure vessel (120) which is normally closed to atmosphere, the over temperature path being connected to the first fluid circulation path (108) so that, in the event that fluid in the solar energy absorber vaporizes, the fluid is forced out of the solar energy absorber and into the pressure vessel. The present invention also provides a temperature sensitive valve leaving a flow path and a valve member operated by a thermal element having thermal expansion characteristic the valve including a support member against which the thermal element expands to force the valve element to close the flow path.

IPC 8 full level  
**F24J 2/48** (2006.01); **F16K 31/64** (2006.01); **F24D 19/10** (2006.01); **F24J 2/04** (2006.01); **F24J 2/34** (2006.01); **F24J 2/44** (2006.01); **F24J 2/46** (2006.01); **F24S 10/70** (2018.01); **G05D 23/02** (2006.01)

CPC (source: EP US)  
**F24S 40/48** (2018.04 - EP US); **F24S 40/55** (2018.04 - EP US); **F24S 40/58** (2018.04 - EP US); **F24S 60/30** (2018.04 - EP US); **F24S 90/10** (2018.04 - EP US); **Y02E 10/40** (2013.01 - EP US)

Citation (search report)  
• [X] WO 2004090439 A1 20041021 - RHEEM AUSTRALIA PTY LTD [AU], et al  
• [X] US 4413615 A 19831108 - SIGWORTH JR HARRY W [US]  
• [X] US 4357932 A 19821109 - STACY W DODD  
• [X] US 4341202 A 19820727 - FRENCH ROGER F  
• [A] US 4240405 A 19801223 - FRENCH ROGER F [US]  
• See references of WO 2006081608A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2006081608 A1 20060810**; AU 2006209786 A1 20060810; AU 2006209786 A2 20060810; AU 2006209786 B2 20100527; AU 2010201846 A1 20100527; AU 2010201846 B2 20110721; EP 1844268 A1 20071017; EP 1844268 A4 20121205; US 2010059047 A1 20100311

DOCDB simple family (application)  
**AU 2006000115 W 20060131**; AU 2006209786 A 20060131; AU 2010201846 A 20100507; EP 06701717 A 20060131; US 81527906 A 20060131