

Title (en)  
SOLAR THERMAL ENERGY COLLECTOR

Title (de)  
SOLARTHERMIEKOLLEKTOR

Title (fr)  
COLLECTEUR D'ÉNERGIE THERMIQUE SOLAIRE

Publication  
**EP 2220442 A4 20131120 (EN)**

Application  
**EP 08855928 A 20081121**

Priority  
• US 2008084402 W 20081121  
• US 94929507 A 20071203

Abstract (en)  
[origin: US2009139515A1] A solar thermal energy collector includes a receptacle and a tube positioned within the receptacle and having a closed end. The tube includes a divider cross-sectionally bifurcating the tube. The divider is spaced apart from the closed end of the tube to allow fluid communication between two bifurcated portions of the tube. A fluid is circulated through the two bifurcated portions of the tube for transferring of the solar thermal energy.

IPC 8 full level  
**F24J 2/04** (2006.01); **F24J 2/05** (2006.01); **F24J 2/10** (2006.01); **F24S 10/30** (2018.01); **F24S 10/40** (2018.01); **F24S 10/70** (2018.01); **F24S 23/70** (2018.01)

CPC (source: EP US)  
**F24S 10/25** (2018.04 - EP US); **F24S 10/45** (2018.04 - EP US); **F24S 23/80** (2018.04 - EP US); **Y02E 10/44** (2013.01 - EP US)

Citation (search report)  
• [XY] US 4016860 A 19770412 - MOAN KENNETH L  
• [Y] EP 1725815 A1 20061129 - UESTUEN ORHAN [CH]  
• [Y] DE 29819819 U1 19990121 - THERMOMAX LTD [GB]  
• [Y] US 2004261788 A1 20041230 - WINSTON ROLAND [US]  
• [A] WO 8303891 A1 19831110 - HARDING GEOFFREY LESTER, et al  
• [A] US 4126121 A 19781121 - FAIRBANKS DAVID W  
• See references of WO 2009073416A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2009139515 A1 20090604**; CN 101910749 A 20101208; EP 2220442 A1 20100825; EP 2220442 A4 20131120;  
WO 2009073416 A1 20090611

DOCDB simple family (application)  
**US 94929507 A 20071203**; CN 200880123746 A 20081121; EP 08855928 A 20081121; US 2008084402 W 20081121