

Title (en)  
SOLAR ENERGY SYSTEM

Title (de)  
SONNENENERGIESYSTEM

Title (fr)  
SYSTEME A ENERGIE SOLAIRE

Publication  
**EP 1595098 A4 20060503 (EN)**

Application  
**EP 04705740 A 20040128**

Priority  
• AU 2004000094 W 20040128  
• AU 2003900506 A 20030205

Abstract (en)  
[origin: WO2004070281A1] The present invention discloses a solar array cell (15) able to be used both thermally and photovoltaically, together with an array (3) formed from a plurality of the cells (15). A solar energy system for a building which incorporates the array (3) is also disclosed. Each cell (15) is formed from an air duct (16) of parallelogram cross-sectional shape which makes for easy sealing between ducts and a reliable water shedding arrangement for the cells of the array. An air/liquid heat exchanger (35) for a solar hot water supply is also disclosed.

IPC 8 full level  
**F24D 5/04** (2006.01); **E04D 13/18** (2006.01); **F24D 5/00** (2006.01); **F24D 11/00** (2006.01); **F24D 15/00** (2006.01); **F24J 2/04** (2006.01); **F24J 2/46** (2006.01); **F24S 10/70** (2018.01); **F24S 10/75** (2018.01); **F24S 23/74** (2018.01); **F24S 90/00** (2018.01); **F28D 20/02** (2006.01); **F24D 3/08** (2006.01)

CPC (source: EP US)  
**F24D 11/007** (2013.01 - EP US); **F24S 10/20** (2018.04 - EP US); **F24S 10/70** (2018.04 - EP US); **F24S 20/67** (2018.04 - EP US); **F24S 80/30** (2018.04 - EP US); **F28D 20/02** (2013.01 - EP US); **F24S 2020/17** (2018.04 - EP US); **Y02B 10/10** (2013.01 - EP US); **Y02B 10/20** (2013.01 - EP US); **Y02E 10/44** (2013.01 - EP US); **Y02E 60/14** (2013.01 - EP US); **Y02E 70/30** (2013.01 - EP US)

Citation (search report)  
• [XY] DE 20106983 U1 20011031 - REICHARDT HOLGER [DE]  
• [XY] WO 9857101 A1 19981217 - ROESTVIK HARALD N [NO]  
• [XY] WO 9625632 A1 19960822 - KOLLECTAIRE TECHNOLOGY LIMITED [IE], et al  
• [X] US 3996918 A 19761214 - QUICK MELVIN RANDOLPH  
• [XA] US 4316452 A 19820223 - LEVINE PHILIP  
• [X] DE 9016145 U1 19910214  
• [X] US 4052974 A 19771011 - VATARU MARCEL  
• [X] EP 0864824 A2 19980916 - VIESSMANN WERKE KG [DE]  
• [A] EP 0186412 A2 19860702 - JOMING SOLAR SYSTEMS SDN BHD [MY]  
• [A] US 4471834 A 19840918 - SCHLOTE DAVID D [US]  
• See references of WO 2004070281A1

Cited by  
CN111911987A

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

DOCDB simple family (publication)  
**WO 2004070281 A1 20040819**; AU 2003900506 A0 20030220; EP 1595098 A1 20051116; EP 1595098 A4 20060503; US 2006124276 A1 20060615

DOCDB simple family (application)  
**AU 2004000094 W 20040128**; AU 2003900506 A 20030205; EP 04705740 A 20040128; US 54424005 A 20051101