

Title (en)
SOLAR ENERGY SYSTEM

Title (de)
SONNENENERGIESYSTEM

Title (fr)
SYSTEME A ENERGIE SOLAIRE

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Application
EP 04705740 A 20040128

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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.

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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

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