

Title (en)  
SOLAR COLLECTOR OF THE CPC TYPE

Title (de)  
SONNENKOLLEKTOR DER CPC-BAUART

Title (fr)  
CAPTEUR SOLAIRE DE TYPE MIROIR COMPOSE

Publication  
**EP 1611401 A1 20060104 (EN)**

Application  
**EP 04725847 A 20040405**

Priority  
• PT 2004000006 W 20040405  
• PT 10293803 A 20030409

Abstract (en)  
[origin: WO2004090437A1] The present invention is a solar collector with low concentration, ideal of the CPC type, using ideal non-imaging optics (also said to be anidolic), with a thermal behaviour better than the best in its class and fabrication tolerances which allow for cost reductions without sacrificing that behaviour. This objective is achieved through the choice of a novel configuration for the absorbing element (13), in turn combined with the corresponding ideal (anidolic) optics (17), simultaneously providing a lossless optical solution, in spite of the increase in average distance between the absorbing element (13) and said optics (17), when compared with other and previous solutions.

IPC 1-7  
**F24J 2/10**

IPC 8 full level  
**F24J 2/04** (2006.01); **F24J 2/10** (2006.01); **F24J 2/26** (2006.01); **F24S 10/75** (2018.01); **F24S 23/70** (2018.01)

CPC (source: EP)  
**F24S 10/75** (2018.04); **F24S 23/80** (2018.04); **F24S 70/60** (2018.04); **F24S 2023/838** (2018.04); **Y02E 10/44** (2013.01)

Citation (search report)  
See references of WO 2004090437A1

Cited by  
US2022255522A1; US11522511B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**WO 2004090437 A1 20041021**; BR PI0409087 A 20060411; EP 1611401 A1 20060104; PT 102938 A 20041029

DOCDB simple family (application)  
**PT 2004000006 W 20040405**; BR PI0409087 A 20040405; EP 04725847 A 20040405; PT 10293803 A 20030409