

Title (en)
POWER CONVERSION METHOD AND DEVICE

Title (de)
VERFAHREN UND EINRICHTUNG ZUR UMWANDLUNG DER ENERGIE

Title (fr)
PROCEDE ET DISPOSITIF DE TRANSFORMATION D'ENERGIE

Publication
EP 1470631 A2 20041027 (DE)

Application
EP 02798693 A 20020908

Priority
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• DE 10145390 A 20010914

Abstract (en)
[origin: WO03026109A2] A power conversion method wherein solar power, thermal power or radiation energy is directly fed to the evaporator of a heat pipe by means of a focusing system or a radiation conductor and is converted into the power of the working gas of the heat pipe as a result of the absorption thereof by the working fluid of said heat pipe. The power of the movement of the gas of the heat pipe is converted into other non-thermal power types, finally into electric power inter alia. Power conversion into other non thermal power types occurs inside the heat tube in a transport zone thereof, whereupon said power is discharged from the inner part of the heat tube in a non thermal form. The solar, thermal power or radiation energy in the evaporator is simultaneously guided to the entire working body i.e. simultaneously guided to the large, broadly developed surface.

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H02M 1/00

IPC 8 full level
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F03G 6/04 (2013.01 - EP US); **F03G 6/06** (2013.01 - EP); **F03G 6/067** (2013.01 - EP); **F03G 6/068** (2013.01 - US); **F03G 7/002** (2013.01 - EP); **F24S 10/95** (2018.04 - EP US); **F28D 15/04** (2013.01 - EP); **F28D 15/06** (2013.01 - EP); **H02N 2/185** (2013.01 - EP); **H10N 35/101** (2023.02 - EP); **Y02E 10/44** (2013.01 - EP); **Y02E 10/46** (2013.01 - EP)

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See references of WO 03026109A2

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