

Title (en)
HYBRID SYSTEM FOR GENERATING POWER

Title (de)
HYBRIDSYSTEM ZUR ENERGIEERZEUGUNG

Title (fr)
SYSTEME HYBRIDE DE GENERATION D'ENERGIE

Publication
EP 1588425 A2 20051026 (EN)

Application
EP 03815647 A 20031210

Priority
• US 0339327 W 20031210
• US 44209403 P 20030123

Abstract (en)
[origin: WO2004068593A2] A hybrid system for generating electrical power. The hybrid system includes a photovoltaic array for collecting and converting solar radiation into electrical power, an apparatus for producing power from a source of liquid fuel, the apparatus including at least one capillary flow passage, the at least one capillary flow passage having an inlet end and an outlet end, the inlet end in fluid communication with the source of liquid fuel, a heat source arranged along the at least one capillary flow passage, the heat source operable to heat the liquid fuel in the at least one capillary flow passage to a level sufficient to change at least a portion thereof from a liquid state to a vapor state and deliver a stream of substantially vaporized fuel from the outlet end of the at least one capillary flow passage, a combustion chamber in communication with the outlet end of the at least one capillary flow passage and a conversion device operable to convert heat released by combustion in the combustion chamber into electrical power, and a storage device electrically connected to the photovoltaic array and the conversion device for storing the electrical power produced by the photovoltaic array and the conversion device.

IPC 1-7
H01L 31/058; F02G 1/053; F02G 1/055; F23C 7/06; F23C 9/00

IPC 8 full level
F23D 3/00 (2006.01); **F23K 5/18** (2006.01); **F23K 5/20** (2006.01); **F23L 15/04** (2006.01)

CPC (source: EP KR)
F23D 3/00 (2013.01 - EP); **F23K 5/18** (2013.01 - EP); **F23K 5/20** (2013.01 - EP); **F23L 15/04** (2013.01 - EP); **H02S 40/44** (2014.12 - KR); **Y02E 10/50** (2013.01 - EP); **Y02E 10/60** (2013.01 - EP); **Y02E 20/34** (2013.01 - EP); **Y02T 10/12** (2013.01 - EP)

Citation (search report)
See references of WO 2004068593A2

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 2004068593 A2 20040812; **WO 2004068593 A3 20051110**; **WO 2004068593 A8 20051222**; AU 2003296473 A1 20040823; BR 0318030 A 20051206; CA 2513315 A1 20040812; CA 2513315 C 20131029; CN 1826698 A 20060830; EP 1588425 A2 20051026; JP 2006513357 A 20060420; JP 4489600 B2 20100623; KR 101004459 B1 20101231; KR 20050094051 A 20050926; MX PA05007694 A 20100928

DOCDB simple family (application)
US 0339327 W 20031210; AU 2003296473 A 20031210; BR 0318030 A 20031210; CA 2513315 A 20031210; CN 200380110205 A 20031210; EP 03815647 A 20031210; JP 2004567423 A 20031210; KR 20057013587 A 20031210; MX PA05007694 A 20031210