

Title (en)
HYBRID ELECTRICITY GENERATION WITH SOLAR CONCENTRATING AND WIND POWER

Title (de)
HYBRIDE STROMERZEUGUNG MIT SOLARKONZENTRATION UND WINDKRAFT

Title (fr)
PRODUCTION D'ÉLECTRICITÉ HYBRIDE À CONCENTRATION SOLAIRE ET ÉNERGIE ÉOLIENNE

Publication
EP 4007849 A4 20230913 (EN)

Application
EP 21842646 A 20210607

Priority
• TR 202011264 A 20200716
• TR 2021050548 W 20210607

Abstract (en)
[origin: WO2022015270A1] A generator (1) concentrating the sun rays in the focus (3) with the reflective surface (2) or generating electricity in the focus (3) with at least one energy converter and able to work the wind power and solar power together, independently or in support of each other with the help of wind evacuation gap between the reflective surface (2) or steps (4), wherein the generator (1) comprises at least one reflective surface (2), at least one energy converter in the focus (3) of the reflective surfaces (2), the dish (7) created by adding at least one curved blade (5) to the gaps formed between the reflective surfaces (2) or by stepping (4), a swing bearing (8) enabling the dish (7) to rotate independently, at least one wind alternator (11) connected to the swing bearing (8), a dish carrier (9) with tracking system which positions the dish (7) to the sun and wind.

IPC 8 full level
F03D 9/00 (2016.01); **F03D 3/00** (2006.01); **F24S 20/20** (2018.01); **F24S 23/70** (2018.01); **F24S 23/71** (2018.01); **F24S 23/72** (2018.01); **F24S 30/00** (2018.01); **H02S 10/12** (2014.01); **H02S 40/22** (2014.01)

CPC (source: EP)
F03D 3/002 (2013.01); **F03D 9/007** (2013.01); **F24S 23/71** (2018.04); **F24S 23/72** (2018.04); **H02S 10/12** (2014.12); **H02S 40/22** (2014.12); **F24S 2023/833** (2018.04); **F24S 2023/872** (2018.04); **Y02E 10/40** (2013.01); **Y02E 10/52** (2013.01); **Y02E 10/74** (2013.01)

Citation (search report)
• [X] DE 19958414 A1 20010628 - GRIBOV IOURII [DE]
• [X] WO 2012163063 A1 20121206 - AOV ENERGY TECHNOLOGIES CO LTD [CN], et al
• [X] KR 20090112930 A 20091029 - YOON JONG HOON [KR]
• [X] CN 106907291 A 20170630 - UNIV GUANGXI
• [X] JP H11108464 A 19990423 - ENESAABU KK
• [A] US 2017074547 A1 20170316 - DIFIGLIA CHRISTOPHER JOHN [US]
• See references of WO 2022015270A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022015270 A1 20220120; EP 4007849 A1 20220608; EP 4007849 A4 20230913; TR 202011264 A2 20201021

DOCDB simple family (application)
TR 2021050548 W 20210607; EP 21842646 A 20210607; TR 202011264 A 20200716