

Title (en)
DEVICE FOR COLLECTING SOLAR ENERGY

Title (de)
VORRICHTUNG ZUR SAMMLUNG VON SONNENENERGIE

Title (fr)
DISPOSITIF DE COLLECTE D'ÉNERGIE SOLAIRE

Publication
EP 3025103 A1 20160601 (EN)

Application
EP 14761425 A 20140722

Priority
• NL 2011210 A 20130723
• NL 2014050501 W 20140722

Abstract (en)
[origin: WO2015012688A1] A device for gaining solar energy comprises a integral unit with a casing (10..13). The casing comprises reflection means (20) with a hollow reflector surface (25) and is closed off by refraction means (30) with an entry surface (35) for entering sunlight. The refraction means and reflection means are each rotatably arranged around a rotation axis (71, 72) and their orientation relative to each other is continuously adjusted to the current position of the sun in the sky using positioning means provided for that purpose. The casing comprises a number of dustproof, but nevertheless ventilating chambers. The first chamber (100) is situated between the refraction means (30) and the reflection means (20) and comprises energy-conversion means (40) at least near to the focal point of the reflector surface (25). A second chamber (200) is situated between the reflection means (20) and the base part (13) of the casing and comprises positioning means (51, 53) for rotating the refraction means (30) and the reflection means (20).

IPC 8 full level
F24J 2/54 (2006.01); **F24S 10/40** (2018.01); **F24S 20/30** (2018.01); **F24S 23/00** (2018.01); **F24S 23/30** (2018.01); **F24S 23/70** (2018.01); **H01L 31/052** (2006.01)

CPC (source: EP US)
F24S 10/40 (2018.04 - EP US); **F24S 20/30** (2018.04 - EP US); **F24S 20/61** (2018.04 - EP US); **F24S 23/00** (2018.04 - EP US); **F24S 23/31** (2018.04 - EP US); **F24S 23/70** (2018.04 - EP US); **F24S 30/45** (2018.04 - EP US); **F24S 80/40** (2018.04 - EP US); **H01L 31/054** (2014.12 - EP US); **H02S 20/32** (2014.12 - EP US); **F24S 50/20** (2018.04 - EP US); **F24S 2023/837** (2018.04 - EP US); **F24S 2023/84** (2018.04 - EP US); **Y02E 10/44** (2013.01 - EP US); **Y02E 10/47** (2013.01 - EP US); **Y02E 10/52** (2013.01 - EP US)

Citation (search report)
See references of WO 2015012688A1

Citation (examination)
US 2008000516 A1 20080103 - SHIFMAN ELI [IL]

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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

DOCDB simple family (publication)
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NL 2014050501 W 20140722; CN 201480052235 A 20140722; EP 14761425 A 20140722; NL 2011210 A 20130723; US 201414907318 A 20140722