

Title (en)

OPTICAL SYSTEM COMPRISING A TRANSPARENT BALL, AND USE OF SUCH A TRANSPARENT BALL

Title (de)

OPTISCHES SYSTEM MIT EINER TRANSPARENTEN KUGEL SOWIE VERWENDUNG EINER SOLCHEN

Title (fr)

SYSTÈME OPTIQUE COMPRENANT UNE BOULE TRANSPARENTE, ET UTILISATION DE CETTE DERNIÈRE

Publication

EP 2066985 A2 20090610 (DE)

Application

EP 07817541 A 20070919

Priority

- DE 2007001680 W 20070919
- DE 102006044601 A 20060919

Abstract (en)

[origin: WO2008034423A2] The invention relates to an optical system comprising a transparent ball, particularly filled with a transparent liquid. Direct sunlight that is incident on the ball area exposed to the sun is reflected on the opposite, internal face of the hollow ball by means of a rotary mirror in such a way that the focus of the radiation field is reproduced in the center of the hollow ball. Solar converters can thus be statically disposed in the center of the hollow ball and are preferably provided with only one twisting means in order to permanently keep the solar converters in an ideal alignment relative to the focused sunlight.

IPC 8 full level

F24J 2/54 (2006.01); **F24S 10/40** (2018.01); **F24S 23/30** (2018.01); **F24S 23/70** (2018.01); **F24S 23/71** (2018.01); **F24S 23/72** (2018.01); **F24S 50/20** (2018.01); **H01L 31/052** (2006.01)

CPC (source: EP US)

A01G 9/243 (2013.01 - EP US); **F24S 10/40** (2018.04 - EP US); **F24S 23/30** (2018.04 - EP US); **F24S 23/72** (2018.04 - EP US); **F24S 30/45** (2018.04 - EP US); **F24S 50/20** (2018.04 - EP US); **G02B 3/12** (2013.01 - EP US); **H01L 31/0521** (2013.01 - EP US); **H01L 31/0543** (2014.12 - EP US); **H01L 31/0547** (2014.12 - EP US); **F24S 2030/11** (2018.04 - EP US); **F24S 2030/13** (2018.04 - EP US); **F24S 2030/131** (2018.04 - EP US); **F24S 2030/136** (2018.04 - EP US); **F24S 2030/14** (2018.04 - EP US); **Y02A 40/25** (2017.12 - EP US); **Y02E 10/44** (2013.01 - EP US); **Y02E 10/47** (2013.01 - EP US); **Y02E 10/52** (2013.01 - EP US); **Y02P 60/12** (2015.11 - EP US)

Citation (search report)

See references of WO 2008034423A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102006044601 A1 20080327; DE 112007002236 A5 20090625; EP 2066985 A2 20090610; US 2009308377 A1 20091217; WO 2008034423 A2 20080327; WO 2008034423 A3 20081016

DOCDB simple family (application)

DE 102006044601 A 20060919; DE 112007002236 T 20070919; DE 2007001680 W 20070919; EP 07817541 A 20070919; US 31106207 A 20070919