

Title (en)
AIR CURTAIN CONTROL SYSTEM AND METHOD

Title (de)
STEUERUNGSSYSTEM UND -VERFAHREN FÜR LUFTVORHANG

Title (fr)
SYSTÈME ET PROCÉDÉ DE COMMANDE DE RIDEAU D'AIR

Publication
EP 3230657 A4 20180725 (EN)

Application
EP 15867874 A 20151209

Priority
• AU 2014904974 A 20141209
• AU 2015000742 W 20151209

Abstract (en)
[origin: WO2016090410A1] An air curtain control system for a solar thermal receiver comprising: at least one air jet (505) arranged to produce a continuous planar air curtain (507) over at least a portion of a receiver aperture 509 of a solar thermal receiver, an air flow control device (517) for controlling a speed of air flow out of the air jet (505), at least one angular control device (503) for controlling an angle of the air curtain (507) relative to the receiver aperture 509, and a system controller (501) arranged to control the air flow control device (517) and angular control device (503) to isolate the receiver aperture (509) from ambient elements external to the receiver aperture (509).

IPC 8 full level
F24S 20/20 (2018.01); **F24S 40/00** (2018.01); **F24S 80/60** (2018.01); **F24F 9/00** (2006.01)

CPC (source: EP US)
F24S 20/20 (2018.04 - EP US); **F24S 40/00** (2018.04 - EP US); **F24S 50/00** (2018.04 - EP US); **F24S 80/60** (2018.04 - EP US); **F24S 21/00** (2018.04 - EP US); **Y02E 10/40** (2013.01 - US); **Y02E 10/46** (2013.01 - EP US)

Citation (search report)
• [XY] US 4913129 A 19900403 - KELLY BRUCE D [US], et al
• [Y] US 2014342649 A1 20141120 - BONI MICHELE [IT]
• [XA] WO 2013142911 A1 20131003 - ADELAIDE RES & INNOVATION PTY [AU]
• [XA] US 2010154782 A1 20100624 - HON WAI MAN [HK]
• [XA] US 4312324 A 19820126 - ROSS DON H, et al
• [A] JP 3527360 B2 20040517
• See references of WO 2016090410A1

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

DOCDB simple family (publication)
WO 2016090410 A1 20160616; AU 2015362065 A1 20170629; CN 107208931 A 20170926; CN 107208931 B 20200714; EP 3230657 A1 20171018; EP 3230657 A4 20180725; US 2017328601 A1 20171116

DOCDB simple family (application)
AU 2015000742 W 20151209; AU 2015362065 A 20151209; CN 201580073995 A 20151209; EP 15867874 A 20151209; US 201515534844 A 20151209