

Title (en)
SWITCHABLE GLASS STRUCTURE AND VEHICLE WINDOW

Title (de)
SCHALTBARE GLASSTRUKTUR UND FAHRZEUGSCHEIBE

Title (fr)
FENÊTRE DE VÉHICULE ET STRUCTURE DE VERRE COMMUTABLE EN RÉFÉRENCE CROISÉE À DES APPLICATIONS ASSOCIÉES

Publication
EP 3170050 A4 20180418 (EN)

Application
EP 15821927 A 20150708

Priority

- CN 201410333475 A 20140714
- CN 2015083530 W 20150708

Abstract (en)
[origin: WO2016008375A1] A switchable glass structure and a vehicle window are provided. The switchable glass structure includes: a first glass(102)# a second glass(103) disposed opposite to the first glass(102), each of the first(102) and the second glass(103) including at least two surfaces# a polymer dispersed liquid crystal assembly(101) between the first glass(102) and the second glass(103)# and an anti-radiation coating(10) located on at least one surface of the first(102) and the second glass(103), the at least one surface being adjacent to the polymer dispersed liquid crystal assembly(101). The vehicle window is provided with the above switchable glass structure. The anti-radiation coating(10) may have good capability of reflecting infrared lights, thus, most infrared lights with high energy are reflected by the anti-radiation coating(10) and cannot pass through the switchable glass structure, and the switchable glass structure may have improved capability of heat insulation.

IPC 8 full level
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CPC (source: EP KR)
B32B 17/10055 (2013.01 - EP); **B32B 17/10128** (2013.01 - KR); **B32B 17/1022** (2013.01 - EP); **B32B 17/10504** (2013.01 - EP); **B32B 17/10678** (2013.01 - EP); **B32B 17/10761** (2013.01 - EP); **B32B 17/10788** (2013.01 - EP); **B60J 3/04** (2013.01 - KR); **G02F 1/1334** (2013.01 - EP KR); **G02F 1/1335** (2013.01 - KR); **G02F 1/133502** (2013.01 - EP); **G02F 1/167** (2013.01 - KR); **B32B 2307/202** (2013.01 - KR); **B32B 2307/71** (2013.01 - KR); **B32B 2329/06** (2013.01 - KR); **B32B 2457/202** (2013.01 - KR)

Citation (search report)

- [XY] US 2012307337 A1 20121206 - BARTUG BRUCE A [US], et al
- [X] EP 2128688 A1 20091202 - SAINT GOBAIN [FR]
- [X] WO 2014029536 A1 20140227 - SAINT GOBAIN [FR]
- [Y] US 2011262694 A1 201111027 - JANSSEN DAVID [DE], et al
- [Y] US 5618626 A 19970408 - NAGASHIMA TOSHIKAZU [JP], et al
- See references of WO 2016008375A1

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

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