

Title (en)  
VARIABLE LIGHT DIFFUSION SYSTEM COMPRISING A PDLC LAYER

Title (de)  
VERÄNDERLICHES LICHTSTREUUNGSSYSTEM MIT EINER PDLC-SCHICHT

Title (fr)  
SYSTÈME À DIFFUSION LUMINEUSE VARIABLE COMPRENANT UNE COUCHE PDLC

Publication  
**EP 2915004 A1 20150909 (FR)**

Application  
**EP 13747476 A 20130722**

Priority  
• FR 1260427 A 20121031  
• FR 2013051764 W 20130722

Abstract (en)  
[origin: WO2014068203A1] The invention concerns a variable light diffusion system switching between a transparent state and a translucent state comprising a PDLC layer located between two electrodes. The PDLC layer comprises a mixture of liquid crystals forming micro-droplets dispersed in a polymer matrix obtained from a photopolymerisable composition comprising vinyl compounds. The invention also concerns the use of a variable light diffusion system switching between a transparent state and a translucent state operating with a switching voltage lower than 30 Vrms.

IPC 8 full level  
**G02F 1/1334** (2006.01); **C09K 19/54** (2006.01)

CPC (source: EP)  
**C09K 19/544** (2013.01); **G02F 1/1334** (2013.01); **C09K 2019/183** (2013.01); **C09K 2019/3016** (2013.01); **C09K 2019/546** (2013.01)

Citation (search report)  
See references of WO 2014068203A1

Cited by  
WO2021180635A1; DE202021004023U1

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

DOCDB simple family (publication)  
**DE 202013006516 U1 20131107**; CN 103792717 A 20140514; EP 2915004 A1 20150909; FR 2997517 A1 20140502; FR 2997517 B1 20151120; JP 2015532982 A 20151116; KR 20150081274 A 20150713; WO 2014068203 A1 20140508

DOCDB simple family (application)  
**DE 202013006516 U 20130719**; CN 201310308297 A 20130722; EP 13747476 A 20130722; FR 1260427 A 20121031; FR 2013051764 W 20130722; JP 2015538522 A 20130722; KR 20157010972 A 20130722