

Title (en)

LIGHTING DEVICE OF A VEHICLE USING A MULTI-SOURCE OPTICAL LENS

Title (de)

BELEUCHTUNGSVORRICHTUNG EINES FAHRZEUGS, DIE EINE OPTISCHE LINSE MIT MEHREREN QUELLEN VERWENDET

Title (fr)

DISPOSITIF D'ECLAIRAGE D'UN VEHICULE UTILISANT UNE LENTILLE OPTIQUE MULTISOURCE

Publication

EP 2998645 B1 20210901 (FR)

Application

EP 15184928 A 20150911

Priority

FR 1458689 A 20140916

Abstract (en)

[origin: US2016076721A1] A part made of transparent material comprising at least two individual portions each consisting of an input surface and an output surface, the output surface being focused on the input surface of the same portion, the output surfaces being contiguous so as to form an overall output surface of the part which is continuous. Furthermore, the input surfaces are at a distance from one another by being separated by means suitable for preventing rays from a light source placed on the input surface of a portion from being able to pass through the output surface of the adjacent individual portion.

IPC 8 full level

F21S 41/26 (2018.01); **F21S 41/663** (2018.01); **F21S 43/20** (2018.01); **F21W 107/10** (2018.01)

CPC (source: CN EP US)

F21S 41/143 (2017.12 - US); **F21S 41/151** (2017.12 - EP US); **F21S 41/19** (2017.12 - EP US); **F21S 41/24** (2017.12 - US);
F21S 41/25 (2017.12 - US); **F21S 41/26** (2017.12 - EP); **F21S 41/265** (2017.12 - US); **F21S 41/27** (2017.12 - EP US);
F21S 41/663 (2017.12 - EP US); **F21S 43/14** (2017.12 - EP US); **F21S 43/241** (2017.12 - US); **F21S 43/249** (2017.12 - US);
F21S 43/26 (2017.12 - EP); **F21V 5/045** (2013.01 - CN); **F21S 41/29** (2017.12 - EP US); **F21S 43/19** (2017.12 - US); **F21S 43/243** (2017.12 - US);
F21S 43/27 (2017.12 - EP US); **F21S 45/48** (2017.12 - EP US)

Citation (examination)

- FR 2853395 A1 20041008 - KOITO MFG CO LTD [JP]
- EP 2770246 A1 20140827 - VALEO VISION [FR]
- DE 102005014754 A1 20061005 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE], et al
- EP 2434204 A2 20120328 - AUDI AG [DE], et al
- EP 1213178 A2 20020612 - HELLA KG HUECK & CO [DE]
- FR 2860281 A1 20050401 - KOITO MFG CO LTD [JP]
- FR 2854227 A1 20041029 - KOITO MFG CO LTD [JP]
- EP 2447601 A2 20120502 - KOITO MFG CO LTD [JP]
- GB 2412159 A 20050921 - KOITO MFG CO LTD [JP]
- DE 102013001072 A1 20140724 - DOCTER OPTICS SE [DE]
- WO 2014056568 A1 20140417 - DOCTER OPTICS SE [DE]
- EP 2525142 A2 20121121 - VALEO VISION [FR]
- JP 2004362840 A 20041224 - KOITO MFG CO LTD
- EP 2693113 A1 20140205 - VALEO VISION [FR]

Cited by

FR3063796A1; FR3079598A1; US11028990B2; EP3620713A1; FR3085737A1; CN110887010A

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DOCDB simple family (publication)

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DOCDB simple family (application)

EP 15184928 A 20150911; CN 201510590791 A 20150916; FR 1458689 A 20140916; US 201514854310 A 20150915