

Title (en)
VEHICULAR LAMP UNIT AND VEHICULAR LAMP

Title (de)
FAHRZEUGLAMPENEINHEIT UND FAHRZEUGLAMPE

Title (fr)
UNITÉ DE PHARE DE VÉHICULE ET PHARE DE VÉHICULE

Publication
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Application
EP 20164675 A 20200320

Priority
JP 2019055557 A 20190322

Abstract (en)
Provided is a vehicular lamp in which the plate-shaped light guide portion (34, 34A) can project light uniformly or can be visually recognized/observed as if it emits light uniformly. A vehicular lamp unit (10) includes a light guide body (30, 30A), and a light source (21a, 21b, 21A) configured to emit light guided in the light guide body (30, 30A). The light guide body (30, 30A) includes a first rod-shaped light guide portion (33a, 33Aa) configured to guide light from the light source (21a, 21A) from a proximal end (BE_{33a}) thereof to a distal end (FE_{33a}) thereof, a second rod-shaped light guide portion (33b, 33Ab) configured to guide light from the light source (21b, 21Ab) from a proximal end (BE_{33b}) thereof to a distal end (FE_{33b}) thereof, and a plate-shaped light guide portion (34, 34A) disposed between the first rod-shaped light guide portion (33a, 33Aa) and the second rod-shaped light guide portion (33b, 33Ab). The first rod-shaped light guide portion (33a, 33Aa) and the second rod-shaped light guide portion (33b, 33Ab) are juxtaposed with each other with a space therebetween. The plate-shaped light guide portion (34, 34A) includes a front surface (FS₃₄, FS_{34A}) disposed on a front side of the vehicular lamp unit and a rear surface (RS₃₄, RS_{34A}) disposed on a back side opposite to the front side, and also includes a first end rim portion (EG1, EG1A) configured to be connected to an outer peripheral surface of the first rod-shaped light guide portion (33a, 33Aa), and a second end rim portion (EG2, EG2A) configured to be connected to an outer peripheral surface of the second rod-shaped light guide portion (33b, 33Ab). The rear surface (RS₃₄, RS_{34A}) of the plate-shaped light guide portion (34, 34A) includes a plurality of structures (LC2) configured to diffuse the light from the light source (21a, 21b, 21A) entering the plate-shaped light guide portion (34, 34A) from the respective first and second rod-shaped light guide portions (33a, 33Aa, 33b, 33Ab) and cause the light to exit from the front surface (FS₃₄, FS_{34A}) of the plate-shaped light guide portion (34, 34A). The first end rim portion (EG1, EG1A) and the second end rim portion (EG2, EG2A) of the plate-shaped light guide portion (34, 34A) each include a thin-walled portion (NP1, NP1A, NP2, NP2A) having a thickness thinner than that of the plate-shaped light guide portion (34, 34A) except for the first and second end rim portions (EG1, EG1A, EG2, EG2A).

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Citation (applicant)
JP 2014116142 A 20140626 - KOITO MFG CO LTD

Citation (search report)

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- [XI] JP 2016207351 A 20161208 - ICHIKOH INDUSTRIES LTD, et al
- [XI] JP 2016197575 A 20161124 - ICHIKOH INDUSTRIES LTD, et al
- [XDI] JP 2014116142 A 20140626 - KOITO MFG CO LTD
- [A] FR 3051886 A1 20171201 - VALEO ILUMINACION SA [ES]

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