

Title (en)

Headlamp for vehicle with enlarged lighting field

Title (de)

Scheinwerfer für Fahrzeuge mit vergrössertem Beleuchtungsfeld

Title (fr)

Dispositif projecteur pour véhicule automobile avec plage éclairante élargie

Publication

EP 1422470 B1 20170412 (FR)

Application

EP 03292834 A 20031114

Priority

FR 0214912 A 20021122

Abstract (en)

[origin: EP1422470A1] The headlamp assembly (200) includes a main reflector (202) and a projection lens (203). The lens is surrounded by a reflecting ring (205). On the output surface of the lens, the lens is deformed (206) in order to deflect some of the light passing through the edge of the lens on to the reflecting ring (205). This light is then reflected into the main beam direction. The headlamp assembly (200) for a vehicle includes a lamp filament (201) situated at the heart of a main reflector (202). The optical axis (204) of the reflector, which also includes the filament, also forms the optical axis of a projection lens (203). The lens is surrounded by a reflecting ring (205). On the output surface of the lens, the lens is deformed (206). This serves to deflect some of the light emerging from the reflector and passing through the edge of the lens on to the reflecting ring (205) which is situated around the lens. This light is then reflected by the ring in order to travel forward in the direction of the main beam. This does not interfere with the main beam which must conform to certain standards.

IPC 8 full level

F21V 5/00 (2015.01); **F21S 8/10** (2006.01); **F21V 7/00** (2006.01); **F21V 13/04** (2006.01); **F21W 107/10** (2018.01)

CPC (source: EP US)

F21S 41/255 (2017.12 - EP); **F21S 41/275** (2017.12 - EP); **F21S 41/331** (2017.12 - EP); **F21S 41/36** (2017.12 - EP US); **F21V 13/04** (2013.01 - EP US); **F21S 41/337** (2017.12 - EP)

Cited by

EP2792938A3; CN105121946A; EP2985522A4; US9829689B2

Designated contracting state (EPC)

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