

Title (en)

Improved ventilation and cooling system for vehicle headlamps

Title (de)

Scheinwerfer für Kraftfahrzeuge mit verbessertem Ventilations- und Kühlsystem

Title (fr)

Projecteur de véhicule automobile équipé de moyens de ventilation et de refroidissement perfectionnés

Publication

**EP 0579555 B1 19960918 (FR)**

Application

**EP 93401839 A 19930716**

Priority

FR 9208836 A 19920717

Abstract (en)

[origin: EP0579555A1] The headlamp has a bulb (10), a reflector(20), a rear cover (30) and a front lens. A labyrinth path is formed in the rear cover to allow circulation of air inside the lamp to provide cooling. The cooling path has an air entry (32) at the bottom of the rear cover. The air inlet path has one or more elbows. The air passes through the circular labyrinth path (24) formed between the rear cover of the headlamp and the reflector. The air is then directed in an inward spiral. A separate circular labyrinth path is provided to extract the heated air which is delivered to the outside through an outlet near the top of the rear cover.

IPC 1-7

**F21M 7/00**

IPC 8 full level

**F21S 8/10** (2006.01); **F21V 19/00** (2006.01); **F21V 29/00** (2006.01); **F21V 29/02** (2006.01); **F21V 31/00** (2006.01); **F21V 31/03** (2006.01); **F21W 101/10** (2006.01)

CPC (source: EP US)

**F21S 45/33** (2017.12 - EP US)

Cited by

DE10316506A1; CN106247249A; US7244051B2; WO9732158A1; US8550679B2; US9341339B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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