

Title (en)  
HID head-lamp device for a vehicle

Title (de)  
HID Kraftfahrzeugscheinwerfer

Title (fr)  
Phare de véhicule avec lampe à forte décharge

Publication  
**EP 0942634 B1 20040915 (EN)**

Application  
**EP 99104596 A 19990308**

Priority  
JP 9980598 A 19980309

Abstract (en)  
[origin: EP0942634A2] An HID head lamp device capable of driving each of HID headlights by generating a high voltage at a secondary coil of a transformer by applying a starting voltage to a lamp firing circuit under the control of a control circuit when a lighting switch is turned on and maintaining the lighting of the HID lamp by applying a maintaining voltage to the secondary coil of the transformer after firing the HID lamp, which device composed of left and right head-lamp units, each unit formed by potting a lamp lighting circuit, a transformer assembly and a lamp socket in a housing with insulating resin poured in melted state and solidified therein, and a control unit for control the head lamp units, and which device is very compact, easy to mount on a vehicle body and easy to repair by exchanging only a faulty unit with new one when a fault such as a breakage of a circuit took place in the ECU or any of the lamp units. <IMAGE>

IPC 1-7  
**H05B 41/04**; H01F 38/12; H05B 41/38

IPC 8 full level  
**F21V 23/02** (2006.01); **B60Q 1/00** (2006.01); **H05B 41/02** (2006.01); **H05B 41/04** (2006.01); **H05B 41/16** (2006.01)

CPC (source: EP)  
**H05B 41/042** (2013.01)

Cited by  
CN108501723A; EP1135010A3; EP1135009A3; US8193891B2; WO2009104113A1; WO2010060825A3

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0942634 A2 19990915**; **EP 0942634 A3 20010207**; **EP 0942634 B1 20040915**; DE 69920085 D1 20041021; DE 69920085 T2 20050303; JP H11260573 A 19990924

DOCDB simple family (application)  
**EP 99104596 A 19990308**; DE 69920085 T 19990308; JP 9980598 A 19980309