

Title (en)  
MOTOR VEHICLE HEADLIGHT

Publication  
**EP 0232843 B1 19930811 (EN)**

Application  
**EP 87101484 A 19870204**

Priority  
US 82652686 A 19860206

Abstract (en)  
[origin: EP0232843A2] A motor vehicle headlight including a parabolic reflector (13), a cover (23) secured to the reflector and a lighting capsule (27) located within the reflector. The capsule includes an envelope (29) having a coiled filament (31) located therein and including a substantially cylindrical configuration. Optimum light output is attained by providing the reflector with a short focal length (0.2 inch to about 0.5 inch) and by utilization of a coiled filament structure having a length to diameter ratio of less than about 2:1. The result is a headlight having an overall vertical height of only about two inches and a corresponding frontal area of extremely small size (between 3.0 and 7.5 square inches).  
[origin: EP0232843A2] The vehicle headlamp (10) has a concave Parabolic reflecting part (13) internally coated with a reflecting material (15) such as aluminium. A projecting neck portion (17) extends to the rear apex of the reflector and is closed by a wall (21) thorough which conductors (37) pass and are sealed. Mounted directly and electrically connected on the ends of the conductors (37) is a lighting capsule (27) with a coiled filament (31) having a length to diameter ratio of less than 2 to 1 and a length not exceeding 30 percent of the reflector focal length which is extremely short i.e. 0.2 to 0.5 inches. The headlamp is of rectangular configuration with a very small overall height of only 1.5 to 2.5 inches and a width of between 2 and 3 inches. The area of the forward rectangular face of the lamp housing is consequently only 3 to 7.5 square inches.

IPC 1-7  
**F21M 3/02**; **F21M 3/10**; **H01K 1/14**

IPC 8 full level  
**F21S 8/10** (2006.01); **H01K 1/14** (2006.01); **H01K 7/00** (2006.01)

CPC (source: EP)  
**F21S 41/166** (2017.12); **F21S 41/28** (2017.12); **F21S 41/321** (2017.12); **F21S 41/333** (2017.12); **F21S 41/37** (2017.12)

Cited by  
CN104075217A; KR100855401B1; WO0075957A1; WO0207188A1

Designated contracting state (EPC)  
BE DE FR GB NL

DOCDB simple family (publication)  
**EP 0232843 A2 19870819**; **EP 0232843 A3 19890607**; **EP 0232843 B1 19930811**; CA 1270036 A 19900605; CA 1270036 C 19900605; DE 3786931 D1 19930916; DE 3786931 T2 19940224; JP H0821370 B2 19960304; JP S62254355 A 19871106

DOCDB simple family (application)  
**EP 87101484 A 19870204**; CA 529123 A 19870205; DE 3786931 T 19870204; JP 2492487 A 19870206