

Title (en)
Vehicle headlight with a complex-surface reflector

Title (de)
Kfz-Scheinwerfer mit Mehrflächen-Reflektor

Title (fr)
Projecteur pour véhicule avec un réflecteur comportant plusieurs secteurs

Publication
EP 0709619 B1 20000510 (EN)

Application
EP 95116738 A 19951024

Priority
GB 9421697 A 19941027

Abstract (en)
[origin: EP0709619A1] A headlight including a light source (3) and a reflector (5), and wherein the reflector (5) collects the source-emitted light over 360 DEG about the source (3) to emit a beam concentrated entirely below the cutoff line (2). The reflector (5) presents a complex reflecting surface including four sectors (10,11,12,13), a first pair (10,11) of which is located on one side of the optical axis (4), and a second pair (12,13) of which is located on the opposite side. The surfaces of the sectors in each pair are connected continuously to each other at respective half planes (A,B) extending through the optical axis (4) and arranged according to the cutoff line (2), form a respective branch of an ellipse (20,21) at each half plane (A,B), and are defined over at least 75% of their angular extension by the envelope of arcs (33,34,35,36) having centers (C1,C2,C3,C4) offset on either side of the optical axis (4). The source (3) is defined by a filament centered on the optical axis (4) but off-centered axially in relation to a first focal point (F) common to the ellipse branches (20,21). <IMAGE> <IMAGE>

IPC 1-7
F21V 7/08; **F21V 7/09**

IPC 8 full level
F21V 7/00 (2006.01)

CPC (source: EP)
F21S 41/335 (2017.12); **F21S 41/336** (2017.12)

Cited by
US5725298A; AU714638B2

Designated contracting state (EPC)
DE ES FR IT SE

DOCDB simple family (publication)
EP 0709619 A1 19960501; **EP 0709619 B1 20000510**; DE 69516798 D1 20000615; DE 69516798 T2 20001109; ES 2148401 T3 20001016; GB 2294536 A 19960501; GB 2294536 B 19980617; GB 9421697 D0 19941214

DOCDB simple family (application)
EP 95116738 A 19951024; DE 69516798 T 19951024; ES 95116738 T 19951024; GB 9421697 A 19941027