

Title (en)
AUTOMOBILE HEADLIGHT

Title (de)
SCHEINWERFER FÜR KRAFTFAHRZEUGE

Title (fr)
PROJECTEUR POUR VÉHICULE AUTOMOBILE

Publication
EP 4368878 A1 20240515 (EN)

Application
EP 22206194 A 20221108

Priority
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Abstract (en)
The invention is directed to an automobile headlight comprising light sources (1), a primary optical element (2) for collimating light from the light sources (1), and a secondary optical element (3) for directing light collimated by the primary optical element (2). The primary optical element (2) comprises a body (4) comprising an exit surface (5) for letting light out of the element and comprising a collimating protrusion (6) for each light source (1). Each collimating protrusion (6) is connected to the body (4) and comprises a protrusion entry surface (7) for letting light from corresponding light source (1) in. The exit surface (5) is divided into segments (8), each corresponding to at least one collimating protrusion (6) divided into multiple subsegments. The subsegments are adapted to direct light rays passing through the corresponding collimating protrusion (6) towards the secondary optical element (3) and to decrease divergence of light rays exiting through the exit surface (5).

IPC 8 full level
F21S 41/24 (2018.01); **F21S 41/143** (2018.01)

CPC (source: EP)
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Citation (search report)
• [I] DE 102018207063 A1 20191107 - OSRAM GMBH [DE]
• [I] EP 3301350 A1 20180404 - AUTOMOTIVE LIGHTING REUTLINGEN GMBH [DE]
• [I] WO 2017198516 A1 20171123 - HELLA KGAA HUECK & CO [DE]
• [I] DE 102010046021 A1 20120322 - AUTOMOTIVE LIGHTING REUTLINGEN [DE]
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