

Title (en)
AUTOMOTIVE LUMINOUS DEVICE

Title (de)
LEUCHTVORRICHTUNG FÜR KRAFTFAHRZEUGE

Title (fr)
DISPOSITIF LUMINEUX AUTOMOBILE

Publication
EP 4395463 A1 20240703 (EN)

Application
EP 23150048 A 20230102

Priority
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Abstract (en)
The invention provides an automotive luminous device (10) for an automotive vehicle (100). It comprises a buck converter (1) configured to produce a voltage value in the voltage output (5) which is lower than the voltage value received at the voltage input (4). The buck converter (1) is also configured so that the voltage value at the voltage output (5) depends on the voltage value received at the control input (6). It also comprises a temperature compensation circuit (2) comprising a thermistor, the temperature compensation circuit having a circuit input (7) receiving the voltage output from the buck converter (1) and having a circuit output (8) connected to the control input (6) of the buck converter (1). Finally, it also comprises at least one light branch (3) connected in parallel between the voltage output and the ground connection, each light branch comprising at least one solid-state light source (9) and at least one passive component, such as a resistor (12), mounted in series with the at least one solid-state light source (9).

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H05B 45/18 (2020.01); **H05B 45/375** (2020.01); **H05B 45/46** (2020.01)

CPC (source: EP)
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Citation (search report)
• [IY] US 6111739 A 20000829 - WU CHEN-HO [US], et al
• [Y] EP 3691414 A1 20200805 - VALEO ILUMINACION SA [ES]
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• [Y] WO 2016179617 A1 20161117 - ZKW GROUP GMBH [AT]
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