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(54) **ILLUMINATION DEVICE FOR A MOTOR VEHICLE, MORE PARTICULARLY HIGH-RESOLUTION HEADLAMP**

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(57) **ABSTRACT**

An illumination device having a light-emitting diode field and an adjustable current source for each LED. The current source delivers a pulse width modulated current having a pulse height. An open-loop/closed-loop controller is provided for the open-loop/closed-loop control of the brightness of the LEDs. A setpoint value for the pulse height can be produced for the current source. A brightness value can be specified for each LED in accordance with the setpoint value, encoded in a video signal, and provided at a video signal output. The light-emitting diode field has a decoder, which is connected to the video signal input and via which the brightness value can be decoded from the video signal and converted into a duty cycle with which the pulse height can be produced;

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