

Title (en)

PHOTOVOLTAIC RECEIVER OPTIMISED FOR COMMUNICATION BY CODED LIGHT

Title (de)

ZUR KOMMUNIKATION DURCH CODIERTES LICHT OPTIMIERTER FOTOVOLTAISCHER EMPFÄNGER

Title (fr)

RÉCEPTEUR PHOTOVOLTAÏQUE OPTIMISÉ POUR LA COMMUNICATION PAR LUMIÈRE CODÉE

Publication

**EP 3398265 A1 20181107 (FR)**

Application

**EP 16826370 A 20161230**

Priority

- FR 1502752 A 20151231
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Abstract (en)

[origin: WO2017115024A1] The invention relates to a coded-light communication device, in which the communication has an initial signal-to-noise ratio, denoted SNR1, which varies according to the lighting conditions, said device comprising at least one photodetector-type light receiver (2) comprising an anode (18 or 22) and a cathode (19 or 24) and having an initial shunt resistance of value Rsh1, said receiver being capable of being simultaneously exposed to a coded light source (1) carrying a signal and a non-coded light source (3), characterised in that said anode (18 or 22) and cathode (19 or 24) are short-circuited by at least one short-circuit resistance Rp (20 or 26) arranged inside the photodetector (2), having value Rsh2 selected so that the new value of the shunt resistance of said photodetector (2, C1, C2) denoted Rsh3 and resulting from the connection of the initial shunt resistance Rsh1 and the short-circuit resistance Rp (20 or 26) gives the communication device a new resultant signal-to-noise ratio SNR2 which remains substantially independent of the intensity of said non-coded light (3).

IPC 8 full level

**H04B 10/116** (2013.01)

CPC (source: EP US)

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