

Title (en)  
Modulation for coded light transmission

Title (de)  
Modulation für kodierte Lichtübertragung

Title (fr)  
Modulation pour transmission de lumière codée

Publication  
**EP 2509398 A1 20121010 (EN)**

Application  
**EP 11161522 A 20110407**

Priority  
EP 11161522 A 20110407

Abstract (en)  
Coded light has been proposed to enable advanced control of light sources and transmit information using light sources. Sequences of channel symbols to drive the light source are determined from sequences of source symbols such that no visible flicker is present in coded light emitted by the light sources. Each source symbol is mapped to a composite channel symbol comprising at least one first channel symbol which may be identical to the current source symbol and at least one second channel symbol which may be a function of the current source symbol and at least one future and/or past source symbol.

IPC 8 full level  
**H05B 37/02** (2006.01)

CPC (source: EP US)  
**H05B 47/195** (2020.01 - EP US)

Citation (search report)

- [X1] US 6198230 B1 20010306 - LEEB STEVEN B [US], et al
- [X1] WO 2009040718 A2 20090402 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
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- [X1] DE 102006037042 A1 20080221 - SIEMENS AG [DE]
- [A] DE 102006008040 A1 20070823 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [A] WO 2009090511 A2 20090723 - TIR TECHNOLOGY LP [CA], et al
- [A] US 4334250 A 19820608 - THEUS JOHN G
- [A] BERGMANN E E ET AL: "Half weight block codes for optical communications", AT & T TECHNICAL JOURNAL, AMERICAN TELEPHONE AND TELEGRAPH CO. NEW YORK, US, vol. 65, no. 3, 1 May 1986 (1986-05-01), pages 85 - 93, XP002112971, ISSN: 8756-2324

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NL1040869B1; NL2019630B1; US10027409B2; WO2015199538A1; WO2014080321A1; US9560726B2; US9721442B2; US9979477B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2509398 A1 20121010**

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