



(11) **EP 3 080 936 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Corrections, see
Bibliography INID code(s) 73

(51) Int Cl.:
H04J 14/02 ^(2006.01) **H04B 10/516** ^(2013.01)
H04B 10/54 ^(2013.01) **H04L 27/34** ^(2006.01)
H04L 27/36 ^(2006.01) **H04L 5/00** ^(2006.01)

(48) Corrigendum issued on:
20.03.2019 Bulletin 2019/12

(86) International application number:
PCT/US2014/068257

(45) Date of publication and mention
of the grant of the patent:
30.01.2019 Bulletin 2019/05

(87) International publication number:
WO 2015/088843 (18.06.2015 Gazette 2015/24)

(21) Application number: **14816048.4**

(22) Date of filing: **03.12.2014**

(54) **CODED MODULATION FOR SMALL STEP-SIZE VARIABLE SPECTRAL EFFICIENCY**

CODIERTE MODULATION FÜR VARIABLE SPEKTRALE EFFIZIENZ MIT KLEINER
SCHRITTGRÖSSE

MODULATION CODÉE POUR UNE EFFICACITÉ SPECTRALE VARIABLE À PETITE TAILLE DE PAS

(84) Designated Contracting States:
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

(74) Representative: **Ashton, Gareth Mark et al**
Baron Warren Redfern
1000 Great West Road
Brentford TW8 9DW (GB)

(30) Priority: **11.12.2013 US 201314102990**

(56) References cited:
US-A1- 2012 082 459 US-A1- 2012 189 303
US-A1- 2012 269 512 US-A1- 2013 216 221

(43) Date of publication of application:
19.10.2016 Bulletin 2016/42

(73) Proprietor: **SubCom, LLC**
Eatontown, NJ 07724-2296 (US)

• **GWANG-HYUN GHO ET AL: "Rate-Adaptive
Modulation and Coding for Optical Fiber
Transmission Systems", JOURNAL OF
LIGHTWAVE TECHNOLOGY, IEEE SERVICE
CENTER, NEW YORK, NY, US, vol. 30, no. 12, 1
June 2012 (2012-06-01), pages 1818-1828,
XP011441016, ISSN: 0733-8724, DOI:
10.1109/JLT.2012.2189435**

(72) Inventors:
• **BATSHON, Hussam G.**
Eatontown, New Jersey 07724 (US)
• **ZHANG, Hongbin**
Marlboro, New Jersey 07746 (US)
• **PILIPETSKII, Alexei N.**
Colts Neck, New Jersey 07722 (US)

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 3 080 936 B8