



(11) **EP 2 823 405 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:

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

(48) Corrigendum issued on:

17.07.2019 Bulletin 2019/29

(45) Date of publication and mention
of the grant of the patent:

12.06.2019 Bulletin 2019/24

(21) Application number: **13757042.0**

(22) Date of filing: **25.02.2013**

(51) Int Cl.:

G06F 15/16 ^(2006.01)	G06F 15/163 ^(2006.01)
H04N 21/436 ^(2011.01)	H04N 21/426 ^(2011.01)
H04N 21/433 ^(2011.01)	H04N 21/4402 ^(2011.01)
H04N 21/442 ^(2011.01)	H04N 5/765 ^(2006.01)
H04N 5/91 ^(2006.01)	H04N 9/79 ^(2006.01)
H04N 21/845 ^(2011.01)	

(86) International application number:

PCT/US2013/027612

(87) International publication number:

WO 2013/134006 (12.09.2013 Gazette 2013/37)

(54) **ADAPTIVE BIT RATE TRANSCODE AND CACHING FOR OFF AIR TELEVISION PROGRAMMING DELIVERY**

ADAPTIVER BITRATEN-TRANSCODE UND CACHESPEICHERUNG ZUR AUSGABE EINER
FERNSEHPROGRAMMIERUNG FÜR NICHT GESENDETE PROGRAMME

TRANSCODAGE DE DÉBIT BINAIRE ADAPTATIF ET MISE EN CACHE EN VUE DE LA LIVRAISON
DE PROGRAMMES DE TÉLÉVISION HORS ANTENNE

(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**

(30) Priority: **07.03.2012 US 201261607821 P**
28.08.2012 US 201213596911

(43) Date of publication of application:
14.01.2015 Bulletin 2015/03

(73) Proprietor: **DISH Technologies L.L.C.**
Englewood, CO 80112 (US)

(72) Inventors:

- **LYNCH, Roger**
East Englewood, Colorado 80112 (US)
- **PAUL, John**
Palo Alto, California 94303 (US)

- **MAJOR, Robert Drew**
Orem, Utah 84059 (US)
- **KUMMER, David**
Highlands Ranch, Colorado 80126 (US)

(74) Representative: **Reeve, Nicholas Edward**
Reddie & Grose LLP
The White Chapel Building
10 Whitechapel High Street
London E1 8QS (GB)

(56) References cited:

US-A1- 2002 136 231	US-A1- 2002 136 231
US-A1- 2006 026 302	US-A1- 2012 002 717
US-A1- 2012 044 426	US-A1- 2012 047 535
US-A1- 2012 314 761	US-B1- 8 290 038

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).