

(19)



(11)

**EP 2 752 994 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.:

**H03M 7/40** <sup>(2006.01)</sup>      **H04N 19/13** <sup>(2014.01)</sup>  
**H04N 19/134** <sup>(2014.01)</sup>      **H04N 19/18** <sup>(2014.01)</sup>  
**H04N 19/93** <sup>(2014.01)</sup>      **H04N 19/61** <sup>(2014.01)</sup>  
**H04N 19/60** <sup>(2014.01)</sup>      **H04N 19/14** <sup>(2014.01)</sup>

(48) Corrigendum issued on:

**02.09.2015 Bulletin 2015/36**

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

**29.07.2015 Bulletin 2015/31**

(21) Application number: **14162995.6**

(22) Date of filing: **16.04.2003**

(54) **Variable length encoding method**

Kodierungsverfahren mit variabler Länge

Procédé de codage de longueur variable

(84) Designated Contracting States:

**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR**

(30) Priority: **19.04.2002 JP 2002118483**

**26.04.2002 JP 2002126029**

**13.12.2002 JP 2002363106**

(43) Date of publication of application:

**09.07.2014 Bulletin 2014/28**

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:

**10180446.6 / 2 343 903**

**09168084.3 / 2 117 236**

**08157872.6 / 1 965 590**

**06123096.7 / 1 744 560**

**03720905.3 / 1 424 856**

(73) Proprietor: **Godo Kaisha IP Bridge 1**

**Tokyo 101-0051 (JP)**

(72) Inventors:

- **Kondo, Satoshi**  
**Osaka, 540-6207 (JP)**

- **Kadono, Shinya**  
**Osaka, 540-6207 (JP)**

- **Hagai, Makoto**  
**Osaka, 540-6207 (JP)**

- **Abe, Kiyofumi**  
**Osaka, 540-6207 (JP)**

(74) Representative: **Eisenführ Speiser**

**Patentanwälte Rechtsanwälte PartGmbB**

**Postfach 10 60 78**

**28060 Bremen (DE)**

(56) References cited:

**EP-A- 0 267 578      EP-A- 0 616 471**

**EP-A- 0 827 345      US-A- 4 541 012**

**US-A- 5 528 628      US-A- 5 751 232**

**US-A- 5 995 148**

- **"Information Technology - Coding of moving pictures and associated audio for digital storage media at up to about 1,5Mbits/s Part 2", 15 April 1996 (1996-04-15), INTERNATIONAL ORGANISATION FOR STANDARDIZATION ISO/IEC 11172-2, SWITZERLAND 11172, XP002292446, \* page 88, paragraph D.6.3.5 - page 93 \***

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 2 752 994 B8**

- **HARTUNG F ET AL: "Improved encoding of DCT coefficients for low bit-rate video coding using multiple VLC tables", IMAGE PROCESSING, 1999. ICIIP 99. PROCEEDINGS. 1999 INTERNATIONAL CONFERENCE ON KOBE, JAPAN 24-28 OCT. 1999, PISCATAWAY, NJ, USA, IEEE, US, 24 October 1999 (1999-10-24), pages 51-55, XP010368953, ISBN: 0-7803-5467-2**
- **JEON B ET AL: "Huffman coding of DCT coefficients using dynamic codeword assignment and adaptive codebook selection", SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 12, no. 3, 1 June 1998 (1998-06-01), pages 253-262, XP004122852, ISSN: 0923-5965**