

Title (en)
Apparatus and method for encoding and decoding enhancement layer

Title (de)
Vorrichtung und Verfahren zur Kodierung und Dekodierung von Erweiterungsschichten

Title (fr)
Appareil et procédé de codage et décodage de couche à enrichissement

Publication
EP 2187387 A3 20120125 (EN)

Application
EP 10153693 A 20080818

Priority

- EP 08793289 A 20080818
- KR 20070082346 A 20070816
- KR 20080024919 A 20080318
- KR 20080079929 A 20080814

Abstract (en)
[origin: WO2009022884A1] Provided is a method and apparatus for encoding and decoding an enhancement layer to reduce quantization error in a G.711 codec. Exponent indices of additional mantissa information of each sample are calculated based upon exponent information of each sample in a frame. A process of allocating 1 bit to each sample with a current exponent index is repeated, the exponent index starting from the maximum value while decreasing by 1 at every repetition until the total number of bits allocated to the samples is equal to the total number of available bits in the frame. And the most significant bits, as many as the number of bits allocated to each sample, are extracted from the additional mantissa information of each sample in the frame.

IPC 8 full level
G10L 19/14 (2006.01); **G10L 19/00** (2006.01); **G10L 19/002** (2013.01); **G10L 19/24** (2013.01)

CPC (source: EP)
G10L 19/002 (2013.01); **G10L 19/24** (2013.01)

Citation (search report)

- [XP] "Wideband embedded extension for G.711 pulse code modulation; G.711.1 (03/08)", ITU-T STANDARD, INTERNATIONAL TELECOMMUNICATION UNION, GENEVA ; CH, no. G.711.1 (03/08), 15 March 2008 (2008-03-15), XP017433779
- [A] HIWASAKI Y ET AL: "A G.711 EMBEDDED WIDEBAND SPEECH CODING FOR VOIP CONFERENCES", IEICE TRANSACTIONS ON INFORMATION AND SYSTEMS, INFORMATION & SYSTEMS SOCIETY, TOKYO, JP, vol. E89D, no. 9, 1 September 2006 (2006-09-01), pages 2542 - 2552, XP001542710, ISSN: 0916-8532
- [A] "Pulse code modulation (PCM) of voice frequencies; G.711 (11/88)", ITU-T STANDARD IN FORCE (I), INTERNATIONAL TELECOMMUNICATION UNION, GENEVA, CH, no. G.711 (11/88), 25 November 1988 (1988-11-25), XP017400850

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CN104067338A; FR2981781A1; WO2013057453A3; WO2013057453A2; US8981970B2

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

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2009022884 A1 20090219; EP 2179415 A1 20100428; EP 2179415 A4 20110720; EP 2179415 B1 20130320; EP 2187387 A2 20100519; EP 2187387 A3 20120125; EP 2187387 B1 20130731; EP 2202728 A1 20100630; EP 2202728 B1 20130327

DOCDB simple family (application)
KR 2008004775 W 20080818; EP 08793289 A 20080818; EP 10153630 A 20080818; EP 10153693 A 20080818