

(12) International Application Status Report

Received at International Bureau: 11 May 2015 (11.05.2015)

Information valid as of: 08 November 2016 (08.11.2016)

Report generated on: 19 February 2020 (19.02.2020)

(10) Publication number:

WO2015/171061

(43) Publication date:

12 November 2015 (12.11.2015)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/SE2015/050503

(22) Filing Date:

07 May 2015 (07.05.2015)

(25) Filing language:

English (EN)

(31) Priority number(s):

61/990,354 (US)

(31) Priority date(s):

08 May 2014 (08.05.2014)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

G10L 19/20 (2013.01); *G10L 19/22* (2013.01); *G10L 25/18* (2013.01); *G10L 25/51* (2013.01); *G10L 25/81* (2013.01)

(71) Applicant(s):

TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) [SE/SE]; SE-164 83 Stockholm (SE) *(for all designated states)*

(72) Inventor(s):

NORVELL, Erik; Hornsbergs strand 37 S-112 16 Stockholm (SE)
GRANCHAROV, Volodya; Ankdammsgatan 29 S-171 67 Solna (SE)

(74) Agent(s):

EGRELIUS, Fredrik; Ericsson AB Patent Unit Kista DSM 16480 Stockholm (SE)

(54) Title (EN): AUDIO SIGNAL DISCRIMINATOR AND CODER

(54) Title (FR): DISCRIMINATEUR ET CODEUR DE SIGNAL AUDIO

(57) Abstract:

(EN): The invention relates to a codec and a discriminator and methods therein for audio signal discrimination and coding. Embodiments of a method performed by an encoder comprises, for a segment of the audio signal: identifying a set of spectral peaks; determining a mean distance S between peaks in the set; and determining a ratio, PNR, between a peak envelope and a noise floor envelope. The method further comprises selecting a coding mode, out of a plurality of coding modes, based at least on the mean distance S and the ratio PNR; and applying the selected coding mode for coding of the segment of the audio signal.

(FR): L'invention concerne un codec et un discriminateur et des procédés correspondants pour la discrimination et le codage de signal audio. Des modes de réalisation d'un procédé mis en œuvre par un codeur comprend, pour un segment du signal audio : l'identification d'un ensemble de crêtes spectrales ; la détermination d'une distance moyenne S entre des crêtes dans l'ensemble ; et la détermination d'un rapport, PNR, entre une enveloppe de crête et une enveloppe de bruit de fond. Le procédé comprend en outre la sélection d'un mode de codage, parmi une pluralité de modes de codage, en se basant au moins sur la distance moyenne S et le rapport PNR ; et l'application du mode de codage sélectionné pour le codage du segment du signal audio.

International search report:

Received at International Bureau: 20 July 2015 (20.07.2015) [EP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Chapter II demand received: 08 March 2016 (08.03.2016)

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH,

PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM