Title (en)
DETERMINATION OF SPATIAL AUDIO PARAMETER ENCODING AND ASSOCIATED DECODING

Title (de)
BESTIMMUNG DER CODIERUNG RÄUMLICHER AUDIOPARAMETER UND ZUGEHÖRIGE DECODIERUNG

Title (fr)
DÉTERMINATION DE CODAGE DE PARAMÈTRE AUDIO SPATIAL ET DÉCODAGE ASSOCIÉ

Publication
EP 3991170 A4 20230510 (EN)

Application
EP 20833011 A 20200615

Priority
• GB 201909138 A 20190625
• FI 2020050423 W 20200615

Abstract (en)
[origin: GB2585187A] Directional metadata parameters for a spatial audio signal are generated 400 for a time-frequency tile. A mapping is generated between the values of the metadata parameters and an index value, and used to generate indices associated with the metadata parameters. The indices are encoded (413, 404) based on an estimate of the number of bits required to encode them. The estimation process may involve entropy encoding 401 the indices and determining 403 if more bits are required than a threshold value and, if so, estimating another number of bits using another mapping that reduces the possible number of index values (figures 5 and 6). The other mapping may be selected to encode the indices based on the lowest number of required bits. Either mapping may map 0 to a directional value of zero and map increasing index values alternately to positive and negative directional values or alternately to left/right or up/down.

IPC 8 full level
G10L 19/008 (2013.01); **G10L 19/032** (2013.01); **G10L 19/22** (2013.01); **G10L 19/24** (2013.01)

CPC (source: EP GB)
G10L 19/008 (2013.01 - EP GB); **G10L 19/0204** (2013.01 - GB); **G10L 19/032** (2013.01 - EP GB); **G10L 19/22** (2013.01 - EP); **G10L 19/24** (2013.01 - EP); G10L 19/002 (2013.01 - GB); H04S 2420/03 (2013.01 - EP); H04S 2420/11 (2013.01 - EP)

Citation (search report)
• [X] US 2016005407 A1 20160107 - FRIEDRICH TOBIAS [DE], et al
• [XP] WO 2020008105 A1 20200109 - NOKIA TECHNOLOGIES OY [FI]
• See references of WO 2020260756A1

Designated contracting state (EPC)
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

DOCDB simple family (publication)
GB 201909138 D0 20190807; **GB 2585187 A 20210106**; EP 3991170 A1 20220504; EP 3991170 A4 20230510; WO 2020260756 A1 20201230

DOCDB simple family (application)
GB 201909138 A 20190625; EP 20833011 A 20200615; FI 2020050423 W 20200615