(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
6 June 2013 (06.06.2013)

WIPO | PCT

(10) International Publication Number
WO 2013/079663 A2

(51) International Patent Classification: Not classified

(21) International Application Number:
PCT/EP2012/074097

(22) International Filing Date:
30 November 2012 (30.11.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11191816.5 2 December 2011 (02.12.2011) EP
13/445,585 12 April 2012 (12.04.2012) US

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: 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, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, 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, 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.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (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), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

(54) Title: APPARATUS AND METHOD FOR MERGING GEOMETRY-BASED SPATIAL AUDIO CODING STREAMS

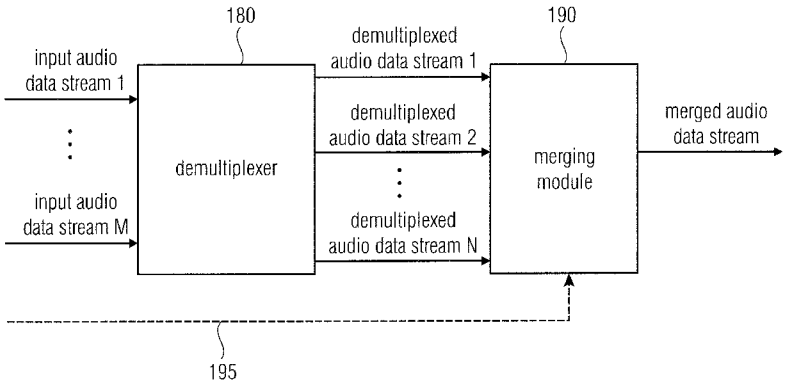

FIG 1

(57) Abstract: An apparatus for generating a merged audio data stream is provided. The apparatus comprises a demultiplexer (180) for obtaining a plurality of single-layer audio data streams, wherein the demultiplexer (180) is adapted to receive one or more input audio data streams, wherein each input audio data stream comprises one or more layers, wherein the demultiplexer (180) is adapted to demultiplex each one of the input audio data streams having one or more layers into two or more demultiplexed audio data streams having exactly one layer, such that the two or more demultiplexed audio data streams together comprise the one or more layers of the input audio data stream. Furthermore, the apparatus comprises a merging module (190) for generating the merged audio data stream, having one or more layers, based on the plurality of single-layer audio data streams. Each layer of the input data audio streams, of the demultiplexed audio data streams, of the single-layer data streams and of the merged audio data stream comprises a pressure value of a pressure signal, a position value and a diffuseness value as audio data.

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