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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
16 September 2021 (16.09.2021)

WIPO | PCT

(10) International Publication Number
WO 2021/180937 A1

(51) International Patent Classification:
H04S 7/00 (2006.01)

(21) International Application Number:
PCT/EP2021/056362

(22) International Filing Date:
12 March 2021 (12.03.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20163151.2 13 March 2020 (13.03.2020) EP

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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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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,

(54) Title: APPARATUS AND METHOD FOR RENDERING A SOUND SCENE COMPRISING DISCRETIZED CURVED SURFACES

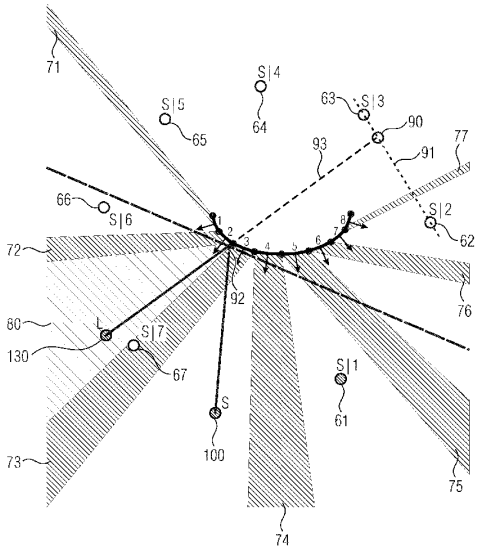

Fig. 7

(57) Abstract: An apparatus for rendering a sound scene having reflection objects and a sound source at a sound source position, comprises: a geometry data provider (10) for providing an analysis of the reflection objects of the sound scene to determine a reflection object represented by a first polygon (2) and a second adjacent polygon (3) having associated a first image source position (62) for the first polygon and a second image source position (63) for the second polygon, wherein the first and second image source positions result in a sequence comprising a first visible zone (72) related to the first image source position (62), an invisible zone (80) and a second visible zone (73) related to the second image source position (63); an image source position generator (20) for generating an additional image source position (90) such that the additional image source position (90) is placed between the first image source position and the second image source position; and a sound renderer (30) for rendering the sound source at the sound source position and, additionally for rendering the sound source at the first image source position, when a listener position (130) is located within the first visible zone, for rendering the sound source at the additional image source position (90), when the listener position is located within the invisible zone (80), or for rendering the sound source at the second image source position, when the listener position is located within the second visible zone.

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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, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*