

Title (en)

Object-based 3-dimensional audio service system using preset audio scenes

Title (de)

Objekt-basiertes dreidimensionales Audiodienst-System mit im voraus eingestellten Audioszenen

Title (fr)

Système de service audio tridimensionnel à base d'objet utilisant des scènes audio prédéfinies

Publication

EP 2501128 A1 20120919 (EN)

Application

EP 12171933 A 20070516

Priority

- EP 11159156 A 20070516
- EP 07746543 A 20070516
- KR 20060045184 A 20060519

Abstract (en)

Provided are an object-based three dimensional (3-D) audio service system using preset audio scenes and a method thereof. The system and the method are suggested for enabling a user to easily and conveniently watch and listen an object based 3-D audio service by eliminating inconvenience that requires a user to control each of object audio signals of sound sources. The system includes: audio input means for inputting an audio signal; preset audio scene generating means for extracting object audio signals from the audio signal inputted through the audio input means and generating more than one of 3-D audio scene information by arranging the extracted object audio signals in a 3-D space and editing features of each object; and encoding means for encoding and multiplexing the audio signal and the 3-D audio scene information for each object audio signal.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] KALVA H ET AL: "DELIVERING OBJECT-BASED AUDIO-VISUAL SERVICES", IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, IEEE SERVICE CENTER, NEW YORK, NY, US LNKD- DOI:10.1109/30.809189, vol. 45, no. 4, 1 November 1999 (1999-11-01), pages 1108 - 1111, XP000928095, ISSN: 0098-3063
- [X] AVARO O ET AL: "The MPEG-4 systems and description languages: A way ahead in audio visual information representation", SIGNAL PROCESSING. IMAGE COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL LNKD- DOI:10.1016/S0923-5965(97)00027-1, vol. 9, no. 4, 1 May 1997 (1997-05-01), pages 385 - 431, XP004075337, ISSN: 0923-5965
- [A] TAEJIN LEE, GI YOON PARK, INSEON JANG, KYEONGOK KANG: "An Object-based 3D Audio Broadcasting System for Interactive Service.", CONVENTION PAPER 6384 118TH CONVENTION AUDIO ENGINEERING SOCIETY, 31 May 2005 (2005-05-31), XP002577516, Retrieved from the Internet <URL:http://www.aes.org/tmpFiles/elib/20100413/13100.pdf> [retrieved on 20100412]

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DOCDB simple family (application)

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