

Title (en)

Signal processing apparatus for a vehicle sound system and signal processing method for a vehicle sound system

Title (de)

Signalverarbeitungsvorrichtung für ein Fahrzeug und Signalverarbeitungsverfahren für ein Kraftfahrzeug-Soundsystem

Title (fr)

Appareil de traitement de signal pour système audio pour automobile et procédé de traitement de signaux pour un système acoustique de véhicule

Publication

EP 2975864 B1 20200513 (EN)

Application

EP 14177369 A 20140717

Priority

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Abstract (en)

[origin: EP2975864A1] A signal processing apparatus (6) for a vehicle sound system (2) includes a signal input section (62), through which in operation a multi-channel audio signal is provided, the multi-channel audio signal having at least a left front signal (L F), a left surround signal (Ls), a right front signal (R F) and a right surround signal (R S), a room simulation module (64) adapted to receive the multi-channel audio signal and to generate at least a left 3D signal (L F3D) and a right 3D signal (R F3D), with the room simulation module (64) having a left room simulation function generating the left 3D signal (L F3D), with the left front signal (L F) and the left surround signal (L S) being inputs thereto, and a right room simulation function generating the right 3D signal (R F3D), with the right front signal (R F) and the right surround signal (Rs) being inputs thereto, and a signal output section (66) for outputting the left 3D signal (L F3D) and the right 3D signal (R F3D) to a left 3D speaker (25) and a right 3D speaker (26) disposed in an upper portion of a vehicle.

IPC 8 full level

H04S 5/00 (2006.01)

CPC (source: EP)

H04S 5/005 (2013.01); **H04R 2499/13** (2013.01); **H04S 7/305** (2013.01)

Citation (examination)

- WO 2014088328 A1 20140612 - SAMSUNG ELECTRONICS CO LTD [KR] & EP 2930952 A1 20151014 - SAMSUNG ELECTRONICS CO LTD [KR]
- WO 2010027882 A1 20100311 - DOLBY LAB LICENSING CORP [US], et al
- US 2006222187 A1 20061005 - JARRETT SCOTT [US], et al
- US 2012008789 A1 20120112 - KIM SUN-MIN [KR], et al

Cited by

CN114697855A; EP4247003A1

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