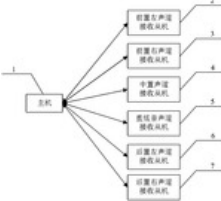
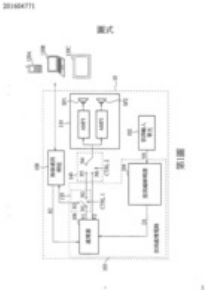
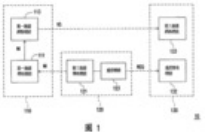
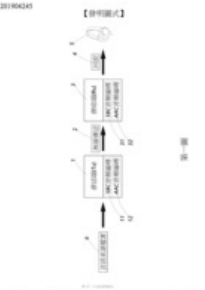
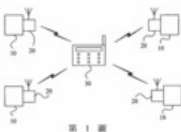
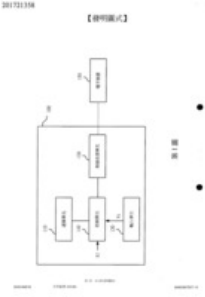
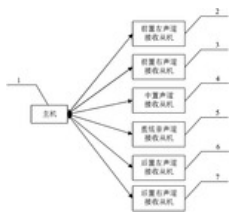
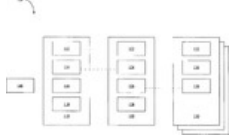
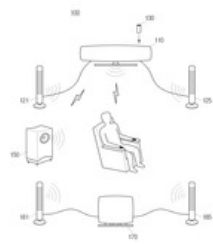
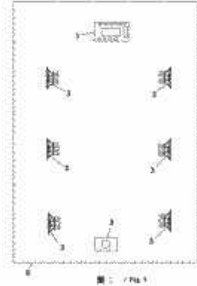
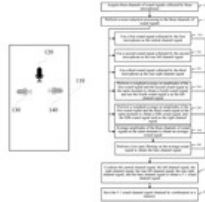
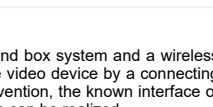
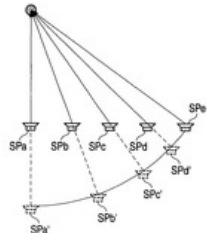
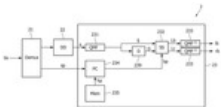
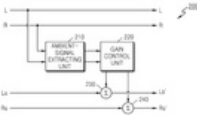
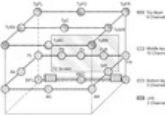
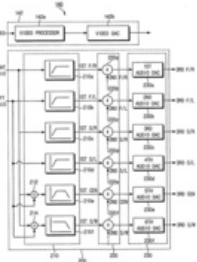
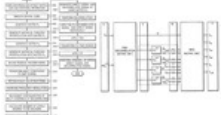
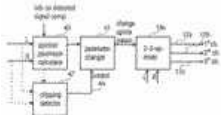
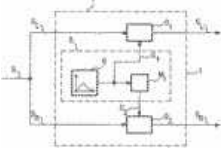
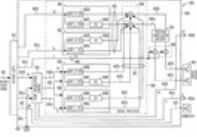
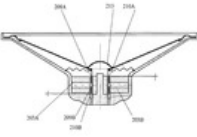
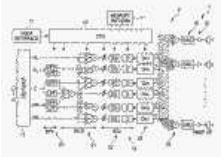
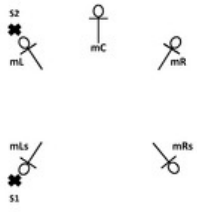
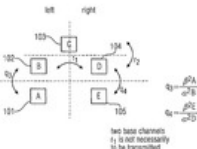


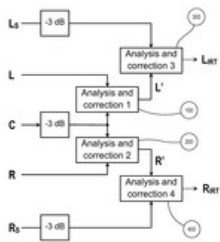
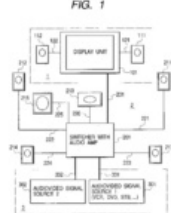
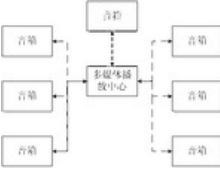
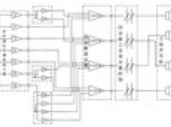
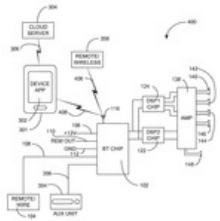
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#	 	Title	Publication number	Publ. date	Applicant/Assignee	
1.		High fidelity 5.1 sound track wireless sound system	CN103269469	2013-08-28	 SHENYANG UNIVERSITY OF TECHNOLOGY	
The invention relates to a high fidelity 5.1 sound track wireless sound system, and belongs to the technical field of multi-media wireless communication. The wireless sound system mainly comprises a host machine and six voice frequency receiving slaves, and the host machine is connected with the voice frequency receiving slaves in a wireless mode. Networking and volume controlling of the host machine of the system and the voice frequency receiving slaves of the system are realized through the Zigbee technology, voice frequency wireless transmission is realized through the Pure Path Wireless technology, the complementary advantage of the Zigbee technology and the Pure Path Wireless technology are combined in the system, on the premise that high fidelity remote wireless transmission of 5.1 sound track voice frequency signals is realized, system efficiency is improved and the high fidelity 5.1 sound track wireless sound system is applicable to popularization and application.						
2.		Method of transmitting audio signal for mobile device and audio transmission system using the same	TW201604771	2016-02-01	 HTC	
A mobile device includes an audio input unit, for receiving a voice outside the mobile device and generating a first voice signal according to the voice; an audio processing circuit, coupled to the audio input unit, for performing signal processing on the first voice signal to generate a first audio signal; and a wireless communication module, coupled to the audio processing circuit, for transmitting the first audio signal in real time to a plurality of external mobile devices via a Bluetooth protocol or a Wi-Fi protocol.						
3.		System for wireless display and remote controller and communication method thereof	TW201328223	2013-07-01	 ACER	
A system for wireless display, a remote controller and a communication method thereof are provided. The system includes a electronic device, a electronic display device and a remote controller of the electronic device. When a distance between a first wireless transceiving module of the electronic device and a second wireless transceiving module of the electronic display device is shorter than a predetermined distance, the first transceiving module derives a connection information from the second transceiving module using a first wireless communication protocol. After deriving the connection information, the electronic device sets up a connection with the electronic display device according to the connection information, and a first wireless internet module of the electronic device transmit a video data to a second wireless internet module of the electronic display device using a second wireless communication protocol.						
4.		Wireless high fidelity broadcast system to improve and preserve the complete waveform of the audio coded file, and to play stably without distortion	TW201904245	2019-01-16	 SOUND YOUNG ORIGINALITY	
A wireless high fidelity broadcast system comprises at least an audio source file; at least a sending end disposed with a chip for decoding the audio source file and coding/compressing it into an audio coded file supported by A2DP(Advanced Audio Distribution Profile) protocol; at least a wireless transmission for transmitting the audio coded file; at least a receiving end for receiving the audio coded file and disposed with a decompression chip; at least an integrated audio interface chip for transmitting the audio coded file at the receiving end; at least a digital signal processor placed with a sampling rate converter for sampling and up-converting the audio coded file to form High Resolution Audio at the oversampling rate; at least a broadcast device playing back through the digital signal processor and converting via the digital-to-analog converter and amplifying the audio coded file via the amplifying circuit. Accordingly, it can effectively improve and preserve the complete waveform of the audio coded file, it is smooth at the high frequency bandwidth, and it plays stably without distortion.						
5.		Management system and method of using short range	TW200933544	2009-08-01	 GRT TECHNOLOGY	
An object management system and a method thereof using short range wireless communication technique comprises at least a target object and a handheld apparatus, and the target object contains a controlled-end apparatus capable of carrying out the information transmission with the handheld apparatus by means of the short range communication. Because the controlled-end apparatus has a specific parameter, the handheld apparatus can carry out the real-time monitor on the specific controlled-end apparatus or the target object by means of mechanisms of the automatic roll-call registration, parameter identification, etc.; in addition, the handheld apparatus can transmit the lamp-controlled command conforming to the protocol DMX 512 to achieve the effect of wireless control of lamp; also, the disposition of outdoor street lamps with the controlled-end apparatus not only enables the lamps to be controlled by the handheld apparatus, but also the lamps can be used as nodes, so that a plurality of street lamps can constitute a network applicable to transmit the emergency SOS message emitted by the handheld apparatus to the remote end, thereby forming a free-of-charge and fast-transmitting security network.						
6.		Bluetooth wireless speaker	TWM484267	2014-08-11	 HON HAI PRECISION INDUSTRY	
One kind of Bluetooth speaker, may be used in the wireless charge system, this wireless charge system including the transmitting end and receiving end, states the Bluetooth speaker to include: The battery and receive mold train, launch mold train, circuit wafer and loudspeaker, state the receive mold train to be used to receive the exterior transmitting end the wireless charge, and can the battery charge, state the receive mold train including of receiving coil receive wireless charge; Stated the launch mold train to be used to give the exterior receiving end to carry on the wireless charge, states launch mold train including for giving of transmitting coil exterior receiving end wireless charge; Stated on the circuit wafer to be equipped with the bluetooth device; Stated loudspeaker and circuit board electric properties connection. The Bluetooth speaker already may be for the external instrumentation wireless charge, may receive the external instrumentation wireless charge.						

7.	Wireless transceiving apparatus and controlling method thereof	TW201721358	2017-06-16	INVENTEC	A wireless transceiving apparatus and a controlling method thereof are disclosed. The wireless transceiving apparatus includes an operating unit, an input unit, a wireless transceiving unit and a control unit. The input unit is configured for generating an input signal. The wireless transceiving unit is configured for wirelessly couple with an electronic apparatus. The control unit is electrically coupled with the operating unit, the input unit and the wireless transceiving unit. The control unit is configured for transmitting the input signal to the operating unit. After the control unit receives a first triggering signal, the control unit is configured for transmitting the input signal to the wireless transceiving unit. 
8.	High fidelity 5.1 channel wireless audio system	CN203368730	2013-12-25	SHENYANG UNIVERSITY OF TECHNOLOGY	The utility model relates to a high fidelity 5.1 channel wireless audio system, which belongs to the technical field of multimedia wireless communications. The wireless audio system includes a host and six audio receiving slave machines, wherein the host is wirelessly connected with the audio receiving slave machines. The networking of the host and the audio receiving slave machines and the volume control are achieved by a Zigbee technology, and the audio wireless transmission is performed by a Pure Path Wireless technology. The complementary advantages of the Zigbee technology and the Pure Path Wireless technology are combined to achieve high fidelity long-distance wireless transmission of the 5.1 channel audio signals, improve the system efficiency and be suitable for application and popularization. 
9.	Wireless acoustic system	DE202014105825	2015-03-12	SER CHERK CHIUEN SHI ZHEQUN	A first sound module of a wireless sound system includes: a first wireless communication interface used for receiving audio data and sound setting data according to a first wireless communication protocol; a processing module used for analyzing the audio data and the sound setting data to obtain first sound channel audio data, at least second sound channel audio data and first sound setting data; a second wireless communication interface used for transmitting the at least second sound channel audio data according to a second wireless communication protocol; and first sound equipment used for playing the first sound channel audio data according to the first sound setting data. A second sound module includes: a third wireless communication interface used for receiving second sound setting data according to the first wireless communication protocol; a fourth wireless communication interface used for receiving the second sound channel audio data according to the second wireless communication protocol; and second sound equipment used for playing the second sound channel audio data according to the second sound setting data. (From CN204104122 J) 
10.	Audio apparatus for wirelessly transmitting audio signal, audio system, and audio signal transmission method thereof	EP2106161	2009-09-30	SAMSUNG ELECTRONICS	An audio apparatus includes a main unit to extract audio signals for at least two channels from a multichannel audio signal; and a transmitter to wirelessly transmit at least one audio signal of the extracted audio signals to a first receiver, and to wirelessly transmit at least one other audio signal of the extracted audio signals to a second receiver. 
11.	Wireless vehicle audio system and its configuration method	WO2010/105517	2010-09-23	YANG YIHUI	The present invention discloses a wireless vehicle audio system and its configuration method which relate to a wireless audio system. The wireless vehicle audio system includes a sound device and at least one loudspeaker, wherein a removable wireless audio transmission card with a wireless audio transmission function is provided in the sound device and an amplifier and a wireless audio receiver is provided on the loudspeaker and the loudspeaker is tightly integrated with the provided amplifier and the wireless audio receiver to become one piece; audio signals of the sound device are transmitted from the wireless audio transmission card to the wireless audio receiver which is provided on the loudspeaker mounted on the vehicle, and then they are amplified by the amplifier and output by the loudspeaker. The configuration method for a wireless vehicle audio system includes the steps of: selecting loudspeakers with different power and/or different timbre on which an amplifier and a wireless audio receiver are provided, and/or selecting a sound device in which a removable wireless audio transmission card is provided. The present invention has the following beneficial effect: it is convenient and rapid for the users to flexibly select and replace and/or modify and update the audio system in the vehicle at any moment. 
12.	Sound recording method and device for generating 5.1 surround sound channels from three microphone channels	EP3163904	2017-05-03	XIAOMI XIAOMI TECH	The present disclosure provides a sound recording method and device, which belongs to field of multimedia processing. The method is applied in a mobile terminal equipped with three microphones, including: acquiring (202, 310) three channels of sound signals collected by the three microphones; calculating (204) a central channel signal, a left channel signal, a right channel signal, a rear left channel signal and a rear right channel signal in a 5.1 sound channel according to the three channels of sound signals; calculating (206) a bass channel signal in the 5.1 sound channel according to the three channels of sound signals; and combining (208, 350) the above signals to obtain a sound signal of the 5.1 sound channel. 
13.	Wireless audio system of video device	CN101656854	2010-02-24	HISENSE	The invention relates to a wireless audio system of a video device, which comprises the video device, a wireless transmission module matched with the video device, a sound box system and a wireless receiving module matched with the sound box system, wherein the wireless transmission module is arranged outside the video device and connected with an interface of the video device by a connecting device, and a 2.4G RF technology is adopted to carry out the wireless communication between the wireless transmission module and the wireless receiving module. In the invention, the known interface of the video device is utilized, the transmission module and the video device are mutually independent, the cost of the video device can not be increased, and the flexible allocation can be realized. 

14.	Array speaker apparatus	EP1971187	2008-09-17	YAMAHA	
An array speaker apparatus includes an array speaker in which plural speaker units are arranged in a single body, a sound source localization adding unit which generates left and right audio signals by performing localization processing for adding sound characteristics to audio signals of a front-left channel and a front-right channel on the basis of head transfer functions, and a sound emitting direction control unit which distributes the left and right audio signals to one or plural speaker units of the array speaker, and controls timing with which the speaker units output the audio signals so that a left sound emitted from the array speaker forms the same sound wavefront formed by a sound emitted from one of virtual point sound sources and that a right sound emitted from the array speaker forms the same sound wavefront formed by a sound emitted from the other of the virtual point sound sources.					
15.	Multi-channel pairing in a media system	EP3306957	2018-04-11	SONOS	
Technology for grouping, consolidating, and pairing individual playback devices with network capability (players) to stimulate a multi-channel listening environment is disclosed. Particularly, the embodiments described herein enable two or more playback devices to be paired, such that multi-channel audio is achieved. Such embodiments may be used to produce stereo and multi-channel audio environments for television and movies.					
16.	Audio coding	EP1927266	2008-06-04	PHILIPS PHILIPS ELECTRONICS	
A spatial decoder unit (23) is arranged for transforming one or more audio channels (s; 1, r) into a pair of binaural output channels (lb, rb). The device comprises a parameter conversion unit (234) for converting the spatial parameters (sp) into binaural parameters (bp) containing binaural information. The device additionally comprises a spatial synthesis unit (232) for transforming the audio channels (L, R) into a pair of binaural signals (Lb, Rb) while using the binaural parameters (bp). The spatial synthesis unit (232) preferably operates in a transform domain, such as the QMF domain.					
17.	Adaptive remastering apparatus and method for rear audio channel	US20100183155	2010-07-22	SAMSUNG ELECTRONICS	
Provided is an adaptive remastering apparatus and method for a rear channel, which emphasizes only signals of the rear channel while maintaining signals of other channels of a multi-channel audio signal. According to the adaptive remastering apparatus and method for a rear channel, virtual rear left and right channel audio signals are generated by multiplying a predetermined gain by ambient signals extracted from front left and right channel audio signals and are combined with input rear left and right channel audio signals, thereby increasing powers of signals of the rear channel.					
18.	Non-linear inverse coding of multichannel signals	EP2917908	2015-09-16	STORMINGSWISS STORMING SWISS SOCIETE A LES SPONSOR BIRITE RIMITE STORMINGSWISS STORMINGSWISS SÄRL	
Upmix or coding apparatus for an audio signal, having: an inverse coding apparatus for determining a first channel and a second channel by means of linear inverse coding from an input signal; characterized by a first gain (50001) connected downstream of the inverse coding apparatus in the first channel; or a first gain (60001) connected downstream of the inverse coding apparatus in the first channel and a second gain (60002), which is different from the first gain (60001), connected downstream of the inverse coding apparatus in the second channel.					
19.	Optical reproducing apparatus and method to transform external audio into multi-channel surround sound	US20060062396	2006-03-23	SAMSUNG ELECTRONICS	
An optical reproducing apparatus and method to transform external audio into multi-channel surround sound to provide a stereo effect. An optical disk drive detects a moving picture signal recorded on an optical disk. A digital signal processor digitalizes the detected moving picture signal. A decoder decompresses the digitalized moving picture signal. An audio processor converts an audio signal in the decompressed moving picture signal into a plurality of first sound sources corresponding to multi-channel surround sound having at least three channel sounds. An external-audio processor filters the external audio, inputted from a microphone, to convert the external audio into a plurality of second sound sources corresponding to the multi-channel surround sound. A mixer unit respectively mixes the plurality of first sound sources with the corresponding plurality of second sound sources. An audio output terminal unit outputs the plurality of mixed first and second sound sources through a plurality of speakers.					
20.	Method, medium, and system decoding and encoding a multi-channel signal	US20070189426	2007-08-16	SAMSUNG ELECTRONICS	
A method, medium, and system decoding and/or encoding multiple channels. Accordingly, down-mixed multiple channels can be decoded/up-mixed to a left channel and a right channel during a first stage, thereby enabling a high quality sound output even in scalable channel decoding.					

21.	Apparatus and method for synthesizing three output channels using two input channels	US20070140500	2007-06-21	FRAUNHOFER	For synthesizing at least three output channels using two stereo input channels, the stereo input channels are analyzed to detect signal components occurring in both input channels. A signal generator is operative to introduce at least a part of the detected signal components into the second channel associated with a second speaker in an intended speaker scheme, which is positioned between a first and a third speaker in the speaker scheme. When, however, feeding of the complete detected signal components would result in a clipping situation, then only a part of the detected signal components is fed into the second channel as a real center channel and the remainder is located in the first and third channels as a phantom center channel. 
22.	A method and system for processing sound signals	EP1728410	2006-12-06	PHILIPS SOUND SOLUTIONS BELGIUM PSS BELGIUM PHILIPS ELECTRONICS PSS BELGIUM HOOGVELD 50 9200 DENDERMONDE BELGIUM	The invention describes a method for processing sound signals for a surround left channel (SL) and a surround right channel (SR). Thereby, a continually varying delay between the resulting signals of the surround right (SR) and surround left channels (SL) is generated. Furthermore the invention describes a delay management unit, a sound processing system, an acoustic system comprising such a sound processing system, a mixing unit for such an acoustic system and a studio system comprising such a sound processing system. 
23.	Method for spatially processing multichannel signals, processing module, and virtual surround-sound systems	US20080273721	2008-11-06	CREATIVE TECHNOLOGY	Embodiments of a virtual surround-sound system and methods for simulating surround-sound are generally described herein. Other embodiments may be described and claimed. In some embodiments, a processing module may include spatial processor spatially processes surround-left and surround-right channel signals and front-left and front-right channel signals and combines the spatially-processed signals for providing to drivers of center speaker after crosstalk cancellation and combining with a center-channel signal. In some embodiments, the processing module may include circuitry to cause the spatial processor to refrain from spatially processing either the front-left and front-right channel signals when front-left and/or front-right speakers are connected. 
24.	Multimedia acoustics system having audio frequency digital interface	EP2348421	2011-07-27	SHENZHEN NEW ELECTRIC SCIENCE & TECHNOLOGY TSENG SHENG NEW ELECTRIC SCIENCE & TECHNOLOGY	A multimedia acoustics system having the audio frequency digital interface, which includes at least a USB or IEEE1394 interface, a USB or IEEE1394 outlay sound card, a set of D type or T type audio frequency power amplifier and controlling circuit or MPU chip which match it, a PCB board and at least more than a pair of sound box. In every sound box configuring a full band loudspeaker and/ or bandpass heavy undertone loudspeaker whose caliber is no more than 7 inches, the loudspeaker is configured a single diaphragm more magnet gaps and more loops which have resistance load characteristic or approximately resistance load characteristic, thereby form audio frequency digital multimedia acoustics system which has super high sensitivity and high fidelity quality and has 2.0 or 2.1 channel which is supplied by pc USB or IEEE1394 interface and 4.1"/47.1 channel which is supplied by single power supply. 
25.	Audio reproduction device with loudspeaker directivity control	EP1796429	2007-06-13	YAMAHA	To provide an audio reproduction apparatus in which a general user inputs simple and easy settings so that audio beams of respective channels can be set. When an array speaker is installed in a room, the user inputs the shape of the room into the audio reproduction apparatus. Based on the shape of the room, the audio reproduction apparatus determines a beam control pattern indicating which directions audio signals of the channels should be formed respectively. The audio reproduction apparatus reads beam control data including delay times for forming the beams in the directions from a pattern memory, and automatically sets the beam control data in a DSP. Thus, only when the user inputs the shape of the room, the beams are controlled with a beam control pattern suitable to the room so that multi-channel audio can be reproduced optimally. 
26.	Method and apparatus for conversion of a multi-channel audio signal into a two-channel audio signal	EP2807832	2014-12-03	INSTITUT FUER RUNDFUNKTECHNIK FEW INSTITUTE IRELAND TECHNIQUE FUNK INSTITUTE FÜR RUNDFUNKTECHNIK	It is described a method for conversion of a n-channel audio signal (L, R, Ls, Rs) into a two-channel audio signal (Ro, Lo), where $n \geq 4$ and integer, comprising the step of generating either one of the two-channel audio signals, right (Ro) or left (Lo), by a combination of: a front (R, L) and rear (Rs, Ls) signal components of the n-channel audio signal of the same side (right or left), and a front (L, R) signal component of the n-channel audio signal of the other side (left or right), and a term dependent of n. 
27.	Apparatus and method for generating a level parameter and apparatus and method for generating a multi-channel representation	EP1695338	2006-08-30	DOLBY CODING TECHNOLOGIES	A parameter representation of a multi-channel signal having several original channels includes a parameter set, which, when used together with at least one down-mix channel al-lows a multi-channel reconstruction. An additional level parameter (rM) is calculated such that an energy of the at least one downmix channel weighted by the level parameter is equal to a sum of energies of the original channels. The additional level parameter is transmitted to a multi-channel reconstructor together with the parameter set or together with a down-mix channel. An apparatus for generat-ing a multi-channel representation uses the level parameter to correct (902) the energy of the at least one transmitted down-mix channel before entering the down-mix signal into an up-mixer or within the up-mixing process. 

28.	Method for generating a downward-compatible sound format	EP2353305	2011-08-10	INSTITUTE FÜR RUNDFUNKTECHNIK FEW INSTITUTE IRELAND TECHNIQUE FUNK INSTITUT FUER RUNDFUNKTECHNIK	
29.	Sound processing unit, sound processing system, audio output unit and display device	US20030185400	2003-10-02	HITACHI	
30.	Converting multi-microphone captured signals to shifted signals useful for binaural signal processing	EP2641244	2013-09-25	NOKIA	
31.	Wireless audio system and method of wireless audio system	CN103475987	2013-12-25	DESAY SV	
32.	Stereo earphone	CN2571094	2003-09-03	LIN OUHUANG	
33.	Streaming audio, dsp, and light controller system	US20170039024	2017-02-09	AUDIO ACCESSORIES AVS INDUSTRIAL	
34.	Audio apparatus	WO2005/064991	2005-07-14	ROHM	