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(12)

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### (54) Video/audio playing apparatus with wireless signal transmission function and wireless video/ audio transmission module thereof

(57) A video/audio playing apparatus with wireless audio signal transmission function comprising: a headset place slot, an audio processing module, a wireless audio signal transmission module, and a system audio interface. The headset place slot can accept and electrically connect a wireless headset, and transmits an electric potential signal. The audio processing module is used for outputting an audio signal. The wireless audio signal transmission module further comprises: an audio signal

switching unit and a control unit. The audio signal switching unit is used for receiving the audio signal, and switches the output path of audio signal according to the electric potential signal. The control unit connects to the audio signal switching unit and connects to the wireless head-set using wireless. Thus, the audio signal switching unit can switch the wireless headset or the system audio interface to output the audio signal according to the electric potential signal.

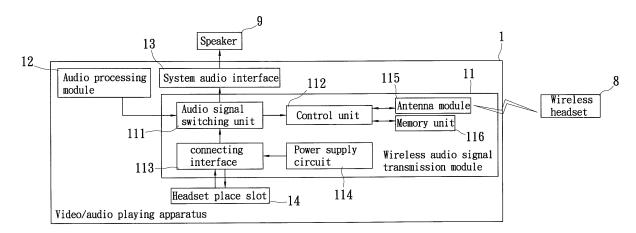


FIG. 1

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# **EUROPEAN SEARCH REPORT**

Application Number EP 09 16 1017

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Category	Citation of document with inc of relevant passag		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)	
X Y	US 6 104 819 A (NICK 15 August 2000 (2000 * column 2, paragrap paragraph 16 * * column 3, paragrap paragraph 12; figure	0-08-15) wh 3 - column 45, wh 7 - column 64,	1-3,8, 20,23,24 1-8, 10-25	INV. H04R5/04 ADD. H04R5/033	
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Place of search		Date of completion of the search  7 October 2011	Nav	Navarri, Massimo	
Munich 7 Oct  CATEGORY OF CITED DOCUMENTS  X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		T: theory or princip E: earlier patent d after the filing d or D: document cited L: document cited	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons  &: member of the same patent family, corresponding document		



# **EUROPEAN SEARCH REPORT**

**Application Number** EP 09 16 1017

\t	Citation of document with indication, where appropriate,			elevant	CLASSIFICATION OF THE
Category	of relevant passa			claim	APPLICATION (IPC)
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					TECHNICAL FIELDS
					SEARCHED (IPC)
	The present search report has l	been drawn up for all claims			
	Place of search	Date of completion of the searc	h		Examiner
	Munich	7 October 2011	7 October 2011 Nav		arri, Massimo
C/	ATEGORY OF CITED DOCUMENTS	<u>T</u> : theory or pri			
Y : parti	icularly relevant if taken alone icularly relevant if combined with anot Iment of the same category	E : earlier pater after the filin her D : document oi L : document oi	g date ited in the a	application	shed on, or
	nological background				



Application Number

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CLAIMS INCURRING FEES
The present European patent application comprised at the time of filing claims for which payment was due.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



# LACK OF UNITY OF INVENTION SHEET B

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

#### 1. claims: 1-8

A video/audio playing apparatus with a wireless audio signal transmission function, comprising a headset place slot, for containing and electrically coupling a wireless headset, and transmitting an electric potential signal; an audio processing module, for outputting an audio signal; a wireless audio signal transmission module, comprising an audio signal switching unit, for receiving the audio signal, and switching an output path of the audio signal according to the electric potential signal; and a control unit, coupled to the audio signal switching unit, for connecting the wireless headset via a wireless connection to output the audio signal from the wireless headset according to the switch of the audio signal switching unit; and a system audio interface, coupled to the audio signal switching unit, for outputting the audio signal according to the switch of the audio signal switching unit; wherein, if the wireless headset is placed into the headset place slot, the audio signal switching unit switches the connection to the system audio interface, and if the wireless headset is not placed into the headset place slot, the audio signal switching unit switches the connection to the control unit. Problem solved: how to provide a simple and easy way for users to control the switching of the output path of the video/audio playing apparatus by selectively storing the wireless headset into a place slot thereof.

### 2. claims: 9-25

The wireless audio signal transmission module sa defined in group 1 (mono: claim 9; stereo: claim 20) which is installed outside the video/audio playing apparatus and inserted in the system audio interface of the video/audio playing apparatus.

Problem solved: how to extend the application of a wireless audio signal transmission module to any video/audio playing apparatus.

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## ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 09 16 1017

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

07-10-2011

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□ For more details about this annex : see Official Journal of the European Patent Office, No. 12/82