

Europäisches Patentamt European Patent Office

Office européen des brevets

(11) **EP 0 989 774 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **05.04.2000 Bulletin 2000/14**

(51) Int. Cl.⁷: **H04R 3/00**

(43) Date of publication A2: **29.03.2000 Bulletin 2000/13**

(21) Application number: 99118908.5

(22) Date of filing: 24.09.1999

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 25.09.1998 JP 27173198

(71) Applicant: Pioneer Corporation Meguro-ku, Tokyo (JP)

(72) Inventors:

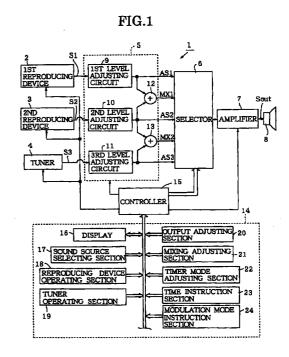
- Matsumoto, Ryuichiro, c/o Pioneer Corporation Tokyo 153-0064 (JP)
- Ishikawa, Dai, c/o Pioneer Corporation Tokyo 153-0064 (JP)

- Yoshida, Hidekazu, c/o Pioneer Corporation Tokyo 153-0064 (JP)
- Hamada, Michiaki, c/o Pioneer Corporation Tokyo 153-0064 (JP)
- Akaishi, Chiharu, c/o Pioneer Corporation Tokyo 153-0064 (JP)
- (74) Representative:

Bohnenberger, Johannes, Dr. et al Meissner, Bolte & Partner Postfach 86 06 24 81633 München (DE)

(54) Audio system having a mixing function

(57) An audio system (1) has a plurality of sound sources, each producing an audio signal. There is provided a plurality of timer means for operating one of the sound sources to produce a first audio signal for a predetermined period before a start time instructed by a user, and for operating another sound source to produce a second audio signal at the start time. A plurality of mixing circuits (5) are provided for mixing the first and second audio signals from two sound sources.



EP 0 989 774 A3



EUROPEAN SEARCH REPORT

Application Number

Category	Citation of document with indication	on, where appropriate,	Relevant	CLASSIFICATION OF THE APPLICATION (Int. CL. 6)	
	of relevant passages		to claim	APPLICATION (Int. CI. b)	
K	US 5259035 A (PETERS ET AL.) 0 1993, the whole do		1-14	H04R3/00	
	~~				
A	GB 2255884 A (GERZON, M.A.) 18 1992.	November			
				TECHNICAL FIELDS SEARCHED (Int. CL6)	
				H04R	
				H04S	
	The present search report has been dra	awn up for all claims			
Place of search VIENNA		Date of completion of the search 15-12-1999		Examiner	
				GRÖSSING	
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 disclasure P: intermediate document		E : earlier patent d after the filing D : document cited L : document cited	T: theory or principle underlying the invention E: carlier 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		
		&: member of the			

ON EUROPEAN FATENT EUROPEAN SEARCH REPORT 18908.5

This annex lists the patent family members relating to the patent documents cited in the above-mentioned search report. The members are as contained in the EPIRUS INPARES Aids on 21.02.0999.

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US A	5259035	02-11-1993	none		
GB A1	2255884	18-11-1992	GB AO GB AO GB B2 US A	9107011 9207362 2255884 5555306	22-05-1991 13-05-1992 03-05-1995 10-09-1996

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