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Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 30 1583

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	PATENT ABSTRACTS OF JAPAN vol. 013, no. 531 (E-851), 28 November 1989 (1989-11-28) & JP 01 215200 A (MITSUBISHI ELECTRIC CORP), 29 August 1989 (1989-08-29) * abstract *	1-6	H04R9/04 H04R9/02
X	--- PATENT ABSTRACTS OF JAPAN vol. 006, no. 006 (E-089), 14 January 1982 (1982-01-14) & JP 56 126399 A (MITSUBISHI ELECTRIC CORP), 3 October 1981 (1981-10-03) * abstract; figures 1,2 *	1-6	
X	--- US 1 962 012 A (PETER GRASSMANN) 5 June 1934 (1934-06-05) * the whole document *	7-14	
A	--- US 4 118 605 A (KOBAYASHI FUMIO) 3 October 1978 (1978-10-03) * column 2, line 22 - column 3, line 50; figures 3,5,6 *	1-14	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	--- PATENT ABSTRACTS OF JAPAN vol. 006, no. 251 (E-147), 10 December 1982 (1982-12-10) & JP 57 148498 A (DAINI SEIKOSHA KK), 13 September 1982 (1982-09-13) * abstract; figures 2-5 *	7-14	H04R
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 6 November 2002	Examiner Fülöp, I
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 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	

EPO FORM 1503 03 82 (P04C01)

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

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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
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06-11-2002

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