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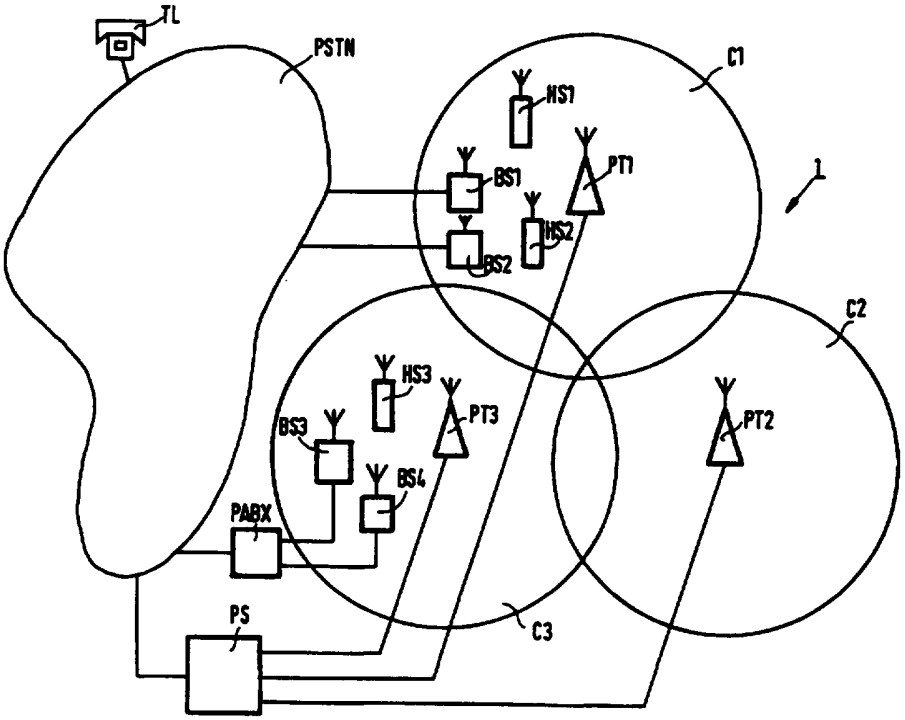
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(54) Title: A CORDLESS TELEPHONY SYSTEM, AND A BASE STATION AND A HANDSET IN SUCH A SYSTEM

(57) Abstract

Known is a combined cordless telephony (1) and wide area paging system (PS, PT1, PT2, PT3) which allows roaming of cordless subscribers (HS1, HS2, HS3) over a wide area with respect to incoming calls from a fixed network subscriber (SUBA; T1). In the known system, the handsets (HS1, HS2, HS3) are provided with a wide area pager which can receive paging messages from a paging server which contain a subscriber's number (SUBA) of a calling fixed network subcriber. The handset (HS1) transforms an incoming call from a fixed network subscriber into an outgoing call. In such a system no standard cordless telephony handsets can be applied. Furthermore, the handsets implementing this feature are more expensive than standard handsets. In addition thereto, call charging is difficult. An improved system is proposed in which non-dedicated base stations (CT; BS1, BS2) comprise a paging receiver (PR) for receiving the paging messages (PM) from a paging server (PS). The base stations (BS1, BS2) page the called handset's subscriber (SUBB) when locked to the base station (BS1). Thereupon, the called handset's subscriber (SUBB) or the handset (HS1) can complete the call to the calling fixed network subscriber (SUBA). The system (1), which is relatively cheap and can easily be installed, can be used to replace public call-boxes.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04Q 7/24, H04Q 7/08
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0546572 A2 (NEC CORPORATION), 16 June 1993 (16.06.93), page 2, column 1, line 30 - column 2, line 11; page 3, column 3, line 50 - column 4, line 21, figure 1, claims 1,8, abstract	1-3,5,7-10, 13
Y		4,11-12
A	abstract	6,14
	--	
X	WO 9203006 A1 (MOTOROLA, INC.), 20 February 1992 (20.02.92), page 2, line 14 - line 33; page 15, line 28 - page 16, line 21, figure 5, abstract	1,5,7,9-10
A		2-4,6,8, 11-14
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[X] Further documents are listed in the continuation of Box C. [X] See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5307399 A (SUSAN W.S.DAI ET AL), 26 April 1994 (26.04.94), column 1, line 38 - line 51; column 2, line 65 - column 3, line 21; column 3, line 35 - line 43, column 14, line 53 - line 56	4,11-12
	--	
A	WO 9113509 A1 (MOTOROLA, INC.), 5 Sept 1991 (05.09.91), page 1, line 25 - line 32; page 2, line 5 - line 13; page 4, line 16 - line 19, page 5, line 2 - line 6, figure 1, claims 1-3, abstract	1
	--	
A	EP 0212761 A2 (PHILIPS ELECTRONIC AND ASSOCIATED INDUSTRIES LIMITED), 4 March 1987 (04.03.87), abstract	1-14
	--	
P,A	US 5450474 A (JüRGEN HOFLINGER), 12 Sept 1995 (12.09.95)	1-14
	--	

INTERNATIONAL SEARCH REPORT

Information on patent family members

05/02/96

International application No.
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP-A2- 0546572	16/06/93	CA-A- 2085268	13/06/93
		JP-A- 5199172	06/08/93
		US-A- 5463672	31/10/95
		JP-A- 5211467	20/08/93
		JP-A- 5211679	20/08/93
		JP-A- 5211681	20/08/93
		JP-A- 5211680	20/08/93
		JP-A- 6343191	13/12/94
		JP-A- 5211682	20/08/93
WO-A1- 9203006	20/02/92	NONE	
US-A- 5307399	26/04/94	CA-A- 2117640	16/09/93
		EP-A- 0629332	21/12/94
		WO-A- 9318624	16/09/93
WO-A1- 9113509	05/09/91	AU-B- 633190	21/01/93
		AU-A- 7225991	18/09/91
		CA-A- 2075279	23/08/91
		EP-A,A- 0516651	09/12/92
		JP-T- 5503619	10/06/93
		US-A- 5090051	18/02/92
EP-A2- 0212761	04/03/87	AU-A- 6168186	05/03/87
		GB-A- 2179823	11/03/87
		JP-A- 62051840	06/03/87
US-A- 5450474	12/09/95	DE-A- 4207748	16/09/93
		EP-A- 0565150	13/10/93
		JP-A- 6022362	28/01/94