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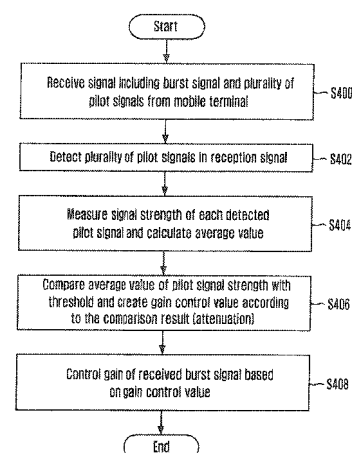
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(54) **Apparatus and method for controlling gain of burst signal in interactive communication system**

(57) Provided is an apparatus and method for controlling a gain of a burst signal in an interactive communication system. The apparatus includes: a transmitting unit for creating a burst signal on transmission data; a pilot creating unit for creating a plurality of pilot signals outside a use frequency band of the mobile terminal; and a multiplexing unit for multiplexing and transmitting the burst signal and the pilot signal to a gap filler.

FIG. 4



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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	US 2007/243899 A1 (HERMEL MICHAEL J [US] ET AL) 18 October 2007 (2007-10-18) * paragraph [0034] * * paragraphs [0059] - [0062] * * figures 2A,7A,7B *	1-14	INV. H04H40/90 H04H60/78
Y	US 4 271 503 A (EUMURIAN GREGOIRE ET AL) 2 June 1981 (1981-06-02) * column 1, lines 6-18 *	1-14	
Y	US 4 403 348 A (LELAND KENNETH W [US] ET AL) 6 September 1983 (1983-09-06) * claim 3 *	1-14	
A	US 4 876 741 A (JACOBS PAUL H [US] ET AL) 24 October 1989 (1989-10-24) * the whole document *	1,6,10,13	
			TECHNICAL FIELDS SEARCHED (IPC)
			H04H H04B H03G
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 13 March 2012	Examiner Pantelakis, P
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			

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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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13-03-2012

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2007243899	A1	18-10-2007	AT 447314 T	15-11-2009
			CN 101473673 A	01-07-2009
			EP 2025179 A2	18-02-2009
			HK 1128578 A1	11-06-2010
			US 2007243899 A1	18-10-2007
			WO 2007121173 A2	25-10-2007

US 4271503	A	02-06-1981	CH 629632 A5	30-04-1982
			DE 2849343 A1	13-06-1979
			FR 2408943 A1	08-06-1979
			GB 2011745 A	11-07-1979
			JP 54085602 A	07-07-1979
			US 4271503 A	02-06-1981

US 4403348	A	06-09-1983	NONE	

US 4876741	A	24-10-1989	NONE	
