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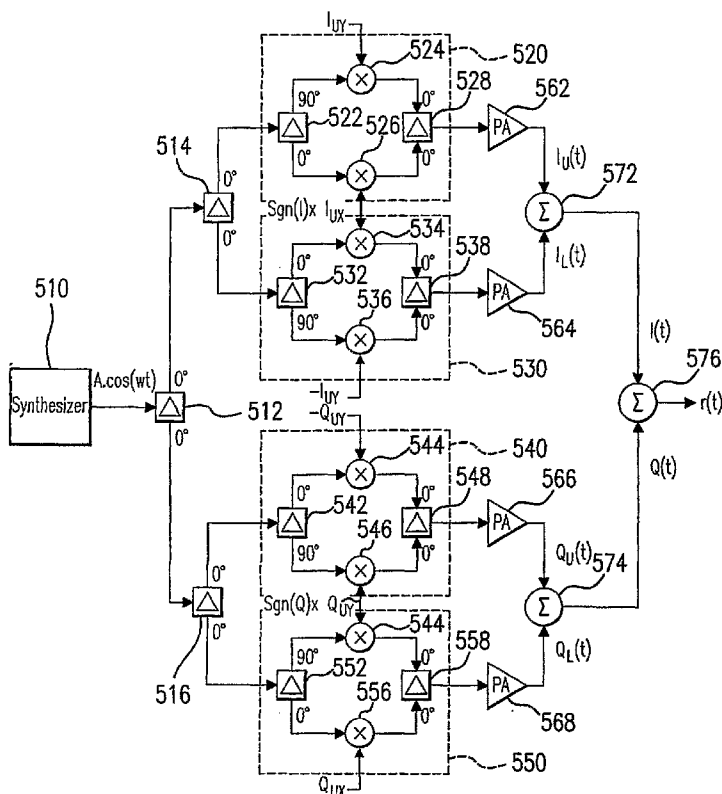
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[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR VECTOR POWER AMPLIFICATION



(57) Abstract: A method of amplifying and frequency up-converting baseband signals comprising: accepting an input clock (510) at a frequency that corresponds to the desired output frequency; independently amplifying (562) baseband in-phase (I vector) envelope and phase information at the desired output frequency; independently amplifying (564) baseband quadrature (Q vector) envelope and phase information at the desired output frequency; summing (572) the amplified baseband in-phase and quadrature information to produce the desired waveform on the desired frequency.

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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USPC: 375/294,295,297,317,318,346;455/302,304,315,295.
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 375/294, 295, 297, 317, 318, 346; 455/302, 304, 315, 295.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 None

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,714,776 B1 (BIRLESON) 30 March 2004, see entire document, Figure 2.	1-24

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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