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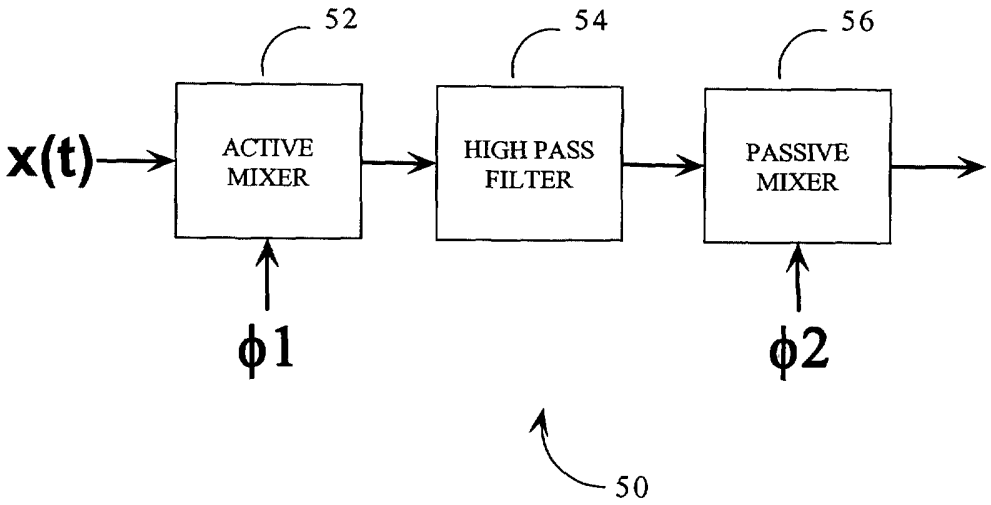
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(54) Title: METHOD AND APPARATUS FOR CONVERSION OF RADIO FREQUENCY (RF) SIGNALS USING APERIODIC MIXING SIGNALS



(57) Abstract: There is a need for an inexpensive, high-performance, fully-integrable, multi-standard transceiver. The invention provides a topology that satisfies this need, consisting of: an active mixer, followed by a high pass filter, and a passive mixer. The input signal is modulated up, or demodulated down, using a pair of complementary, aperiodic mixing signals. The use of aperiodic mixing signals allows a fully-integrated transceiver to be built. Several embodiments of the active mixer are also presented, including those having electrically-adjustable performance and allowing multiple RF signal inputs. This allows the topology of the invention to be employed in multi-band, multi-frequency applications, while still providing high performance.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H03D7/16

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)
IPC 7 H03D H04B

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 5 325 394 A (E. BRUCKERT) 28 June 1994 (1994-06-28) column 9, line 8 -column 14, line 27; figure 2 --- -/--	1-26

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in 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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Name and mailing address of the ISA	Authorized officer
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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