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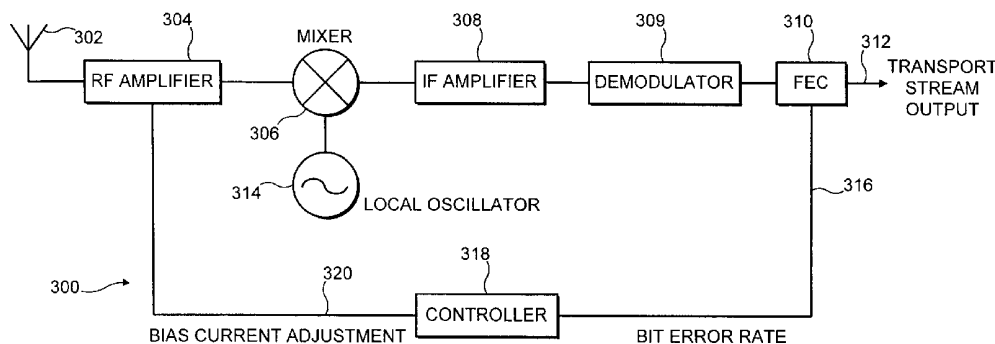
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(57) Abstract: Normal network planning assumes that the adjacent analogue channels can be up to 35dB higher than a digital channel. In order to cope with such high power adjacent channels, and to be able to successfully receive a desired digital channel, the radio frequency (RF) stages of a digital receiver must be highly linear. If a digital receiver is not highly linear, intermediate modulation (IM) products may interfere with the desired signal and prevent good reception. However, current RF amplifiers are not completely linear devices, and exhibit non-linear properties. High linearity can be achieved, however, by having high bias currents in the RF amplifiers of a digital receiver. The present invention provides a receiver having improved power efficiency.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 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)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 999 649 A (NOKIA MOBILE PHONES LTD) 10 May 2000 (2000-05-10) abstract; figure 2 ---	1-15
X	WO 99 45653 A (ERICSSON INC) 10 September 1999 (1999-09-10) abstract ---	1-15
X	WO 94 06213 A (MOTOROLA INC) 17 March 1994 (1994-03-17) abstract ---	1-15
X	EP 0 366 485 A (MOTOROLA INC) 2 May 1990 (1990-05-02) abstract ---	1-15
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Patent family members are listed in annex.

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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.
X	EP 0 814 567 A (LUCENT TECHNOLOGIES INC) 29 December 1997 (1997-12-29) abstract -----	1-15

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Information on patent family members

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