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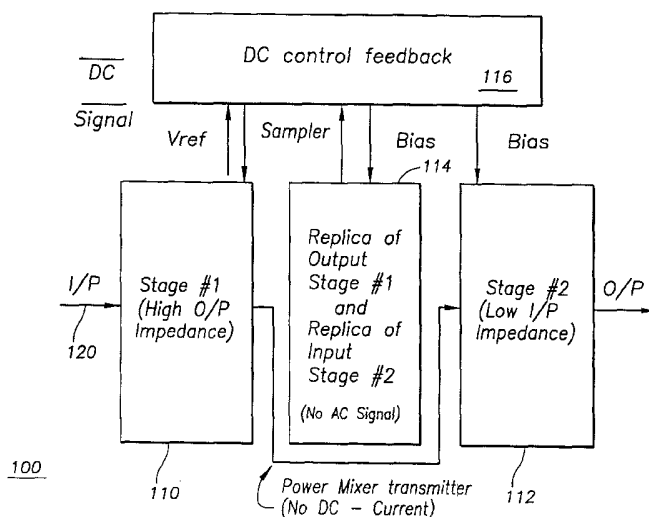
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(54) Title: DC-COUPLING APPROACH FOR CURRENT MODE CIRCUITS



(57) Abstract: The present invention is directed to advantages discovered in connection with controlling DC current passing between and adversely affecting cascaded current-mode blocks. According to a particular example application, the present invention includes first and second cascaded current-mode circuit blocks, and a circuit-replication and comparison block adapted to replicate the operation and output impedance of the first current-mode circuit block and to replicate the operation and input impedance of the second current-mode circuit block. This replication-comparison block includes a differential comparator adapted to detect and correct for a voltage differential corresponding to current passing from the first current-mode circuit block and the second current-mode circuit block. This approach can result in a number advantages relating to improvements in terms of various operational aspects including, for example, reductions in power consumption.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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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 H03F

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 0 634 835 A (HARRIS CORP) 18 January 1995 (1995-01-18) column 5, line 7 -column 8, line 17; figures 5,7,10	1-7, 12-14
X	US 5 534 816 A (KOGLIN DENNIS M ET AL) 9 July 1996 (1996-07-09) column 11, line 65 -column 13, line 46; figure 10	1-3
A		11
X	US 5 107 224 A (MEYER ROBERT G) 21 April 1992 (1992-04-21) column 6, line 38 -column 8, line 29; figures 2B,3C	1-3

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Information on patent family members

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