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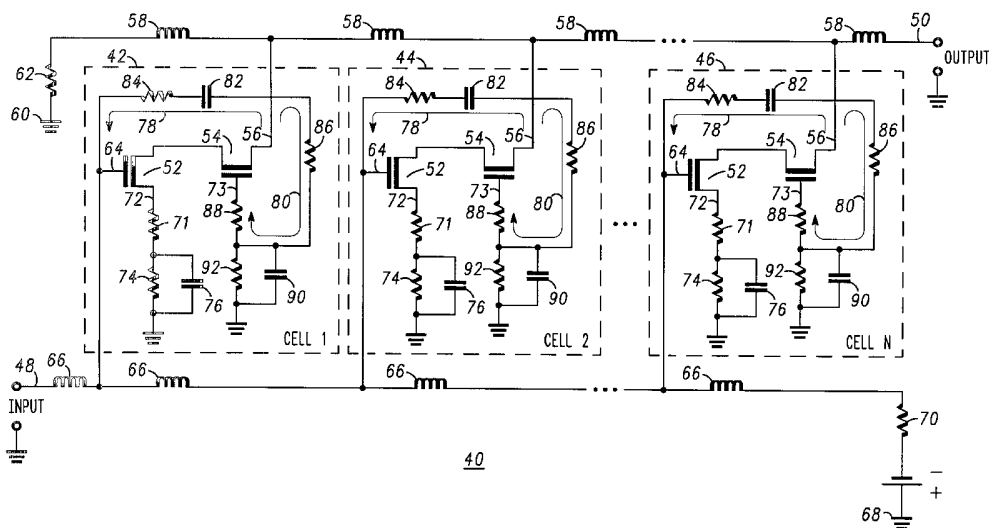
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(54) Title: DISTRIBUTED AMPLIFIER WITH TRANSISTORS HAVING NEGATIVE FEEDBACK



(57) Abstract: A distributed amplifier (40) is provided that comprises an input transmission line (48) and an output transmission line (50). The distributed amplifier (40) also comprises a first distributed amplifier cell (42) and second distributed amplifier cell (44) connected to the input transmission line (48) and the output transmission line (50). The first distributed amplifier cell (42) and second distributed amplifier cell (44) has a first transistor (52) and a second transistor (54) in a first cascode configuration between the input transmission line (48) and the output transmission line (50) and the first transistor (52) is configured with a first feedback loop (78) and the second transistor (54) is configured with a second feedback loop (80).



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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/05270

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H03F3/60 H03F1/22

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	L.N. KASHCHEYEV ET AL: "Distributed-Gain Transistor Amplifiers" TELECOMMUNICATIONS AND RADIO ENGINEERING., vol. 28/29, no. 7, pages 117-120, XP002249835 BEGELL HOUSE, INC., NEW YORK, NY., US ISSN: 0040-2508 page 117 -page 120; figure 3	1-5,8,9
A	US 5 559 472 A (KOBAYASHI KEVIN W) 24 September 1996 (1996-09-24) column 9, line 5 -column 10, line 13; figures 16,17	1,7,10
A	US 5 015 968 A (ALI FAZAL ET AL) 14 May 1991 (1991-05-14) abstract; figure 1	6

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5559472	A	24-09-1996	NONE
US 5015968	A	14-05-1991	NONE