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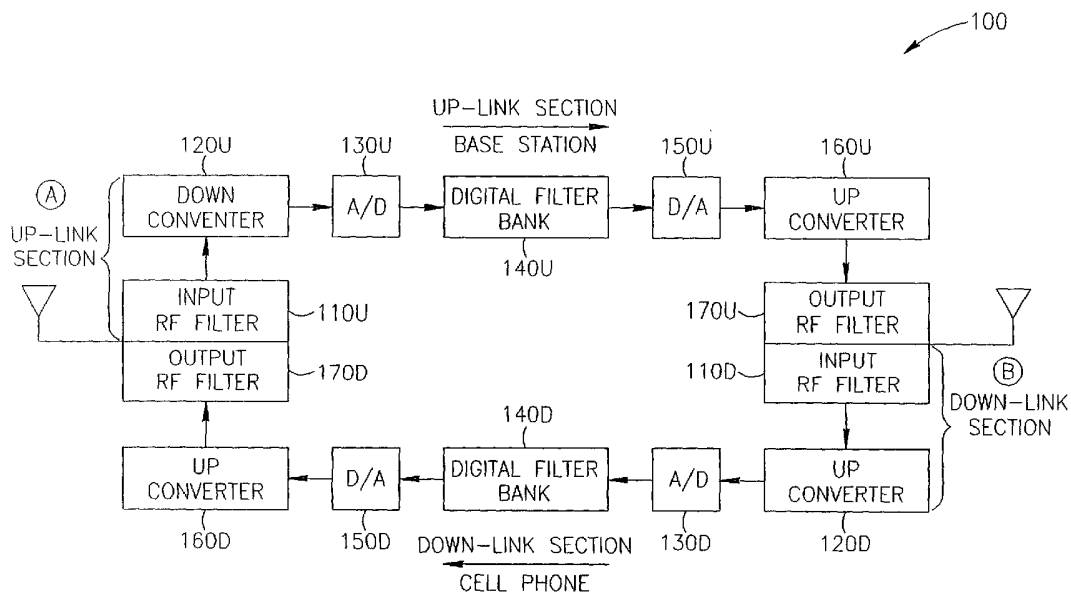
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(54) Title: REPEATER WITH DIGITAL CHANNELIZER



(57) Abstract: In order to retransmit a communication channel at a specific frequency, a receiver (100) may receive a signal including the communication channel's specific frequency. An analog to digital converter (130) may generate a digital signal correlated to the received signal and the digital signal may be passed through a digital filter (140) configured to filter the digital signal and pass frequency components at or around the frequency of the communication channel's specific frequency. A digital to analog converter (150) may generate an analog signal correlated to the filtered digital signal and a transmitter may transmit the analog signal.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL03/00526

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04B 7/15

US CL : 455/11.1, 71, 226.1, 226.2, 226.3

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)

U.S. : 455/11.1, 71, 226.1, 226.2, 226.3

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 practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2001/0004586 A(CHOE et al) 21 June 2001, see entire document	1-15
Y,P	US 6,529,488 B1(URS et al) 04 March 2003, see entire document	1-15
A	US 4,598,410 A(SMITH et al) 01 July 1986, see entire document	1 and 7

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

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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