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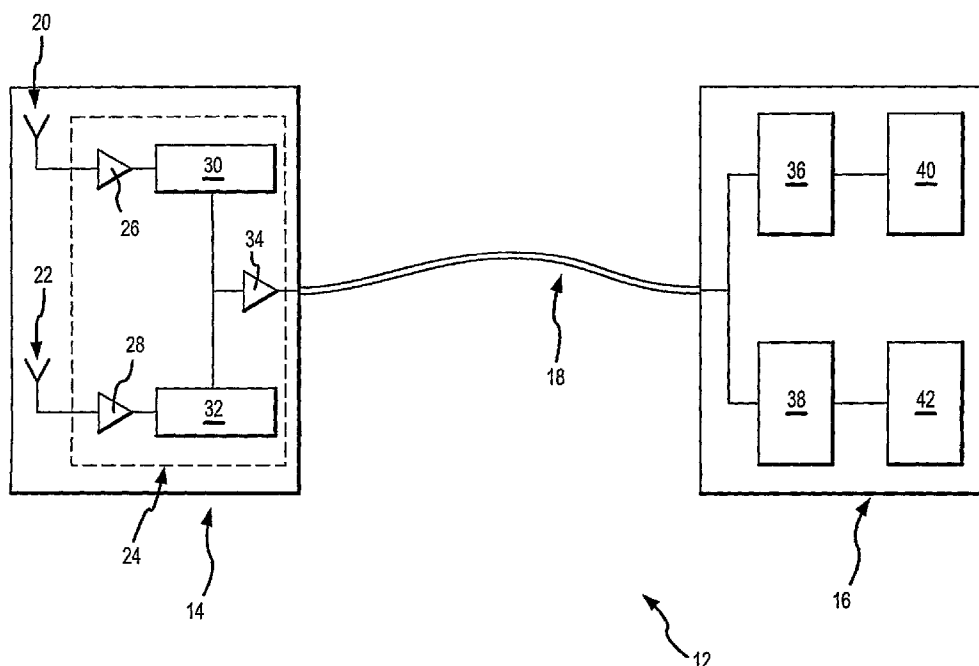
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(54) Title: COMBINED ANTENNA MODULE WITH SINGLE OUTPUT



(57) Abstract: An antenna module on a vehicle having an antenna for receiving satellite radio signals and an antenna for receiving GPS signals. The two antennas may or may not be on a common ceramic substrate. Either of the two antennas may be a ceramic patch antenna or a helical antenna. The respective signals from each of the antenna as is amplified by a low noise amplifier, filtered, and then combined onto a single conductor and amplified prior to being provided on a single conductor routed through the vehicle to a remotely-located pair of receivers.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H01Q 21/00 (2007.01)

USPC - 343/700

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)

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USPC - 343/700, 725, 728

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)

MicroPatent

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 2004/0217907 A1 (INOUE) 04 November 2004 (04.11.2004), entire document	1, 5-13, 20-23, 27 ----- 2-4, 14-19, 24-26
Y	US 2004/0056812 A1 (SABET et al) 25 March 2004 (25.03.2004), entire document	2-4, 14-17, 24-26
Y	US 5,943,018 A (MILLER) 24 August 1999 (24.08.1999), entire document	18-19

Further documents are listed in the continuation of Box C.

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