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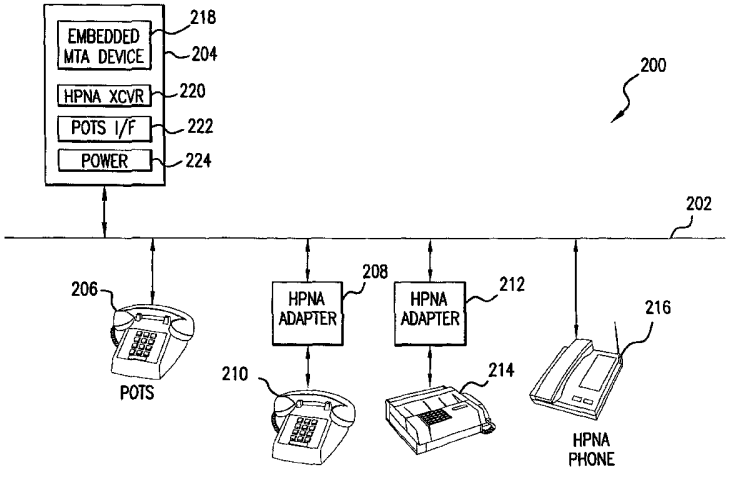
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(54) Title: SYSTEM AND METHOD FOR PROVIDING POWER OVER A HOME PHONE LINE NETWORK



(57) Abstract: A system and method is provided for supplying power over a home phone line network in a manner that is interoperable with other voice and data services operating on the same network. The system includes a power source coupled to the home phone line network. The power source includes an AC signal generator that generates an AC signal at a selected frequency. The power source also includes a band pass filter for removing unwanted harmonics from the AC signal, thereby generating a filtered AC signal for powering one or more devices on the home phone line network. One or more devices attached to the home phone line network, such as a telephone adapter or telephone, receives the filtered AC signal. Each device comprises a second band pass filter and an AC/DC converter. The second band pass filter passes the filtered AC signal to the AC/DC converter and prevents the introduction of undesired harmonics onto the home phone line network from the AC/DC converter. The AC/DC converter converts the filtered AC signal to a DC signal used for powering the device.

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/10 H04L12/28 H04M11/06 H04M19/00

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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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, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	"ETHERNET UEBERS HEIMISCHE TELEFONNETZ" ELEKTRONIK, FRANZIS VERLAG GMBH. MUNCHEN, DE, vol. 48, no. 17, 24 August 1999 (1999-08-24), page 20,22 XP000931024 ISSN: 0013-5658 the whole document	1,10,19, 20,23,25
A	WO 99 36802 A (DELATORRE LEROY C ;PANEX CORP (US)) 22 July 1999 (1999-07-22) abstract; figure 3	1,10,19, 20,23,25
A	WO 97 47082 A (JELINEK CATHERINE W ;PALAZZO MARK A (US); VOGT STEPHAN W (US); SCI) 11 December 1997 (1997-12-11) abstract	1,10,19, 20,23,25

☐ 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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