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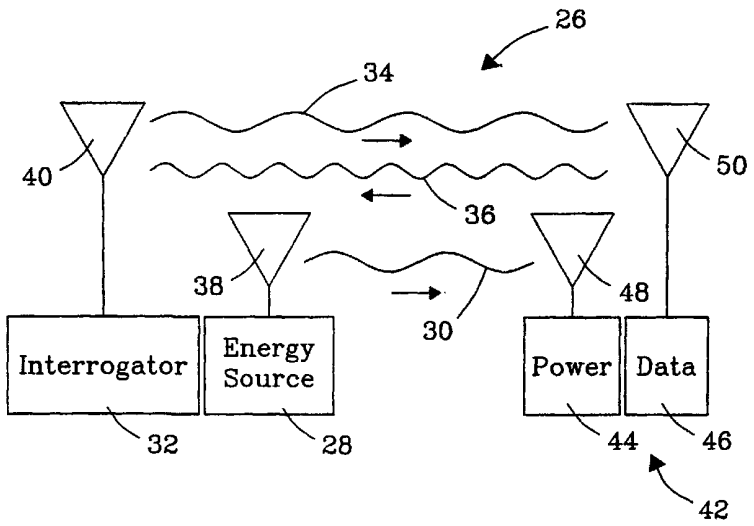
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(54) Title: REMOTE COMMUNICATION SYSTEM



(57) Abstract: A remote communication device is provided that includes an antenna configured to receive a first signal and a second signal at different frequencies and to transmit a third signal; a power circuit coupled to the antenna and configured to provide a supply voltage from the first signal; and an identification circuit coupled to the antenna and the power circuit and configured to use the supply voltage to generate the third signal. Ideally, the first and second signals are received simultaneously through a single antenna, which may also be used to transmit the third signal. Alternatively, a first antenna is used to receive the first signal and a second antenna is used to receive the second signal and transmit the third signal. In one embodiment, an energy signal is transmitted at a first frequency to a tag where it is rectified and used by the tag to receive the second signal at a second frequency and to transform the second signal into the third signal for transmission at the second frequency or at a different frequency. The energy signal may be from a parasitic source, such as wall current, existing radio waves, or from natural or artificial light.

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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)
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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, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 309 201 A (HITACHI MAXELL) 29 March 1989 (1989-03-29) column 3, line 33 -column 5, line 11; figure 1	1-8,10, 12, 16-18, 23,24, 26,28,29
X	DE 198 32 628 A (DAIMLER CHRYSLER AG) 10 February 2000 (2000-02-10) column 1, line 14-42; figure 1	1-8,10, 12, 14-18, 23,24, 28,29, 31,32 13

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[X] Further documents are listed in the continuation of box C.

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Date of the actual completion of the international search	Date of mailing of the international search report
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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