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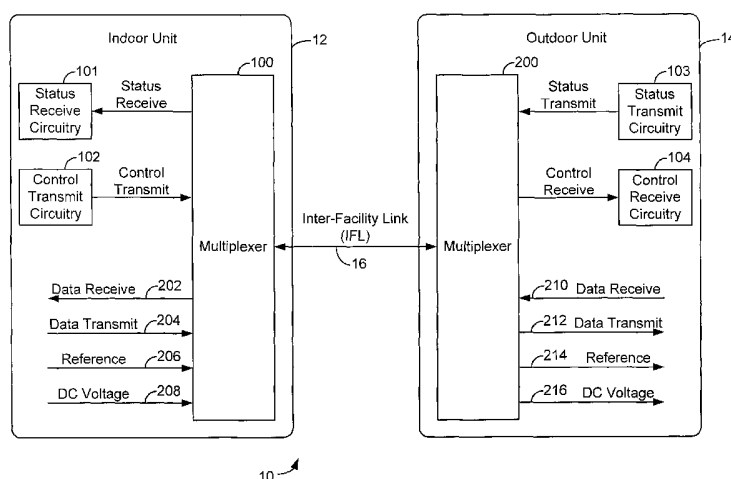
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(54) Title: METHOD AND APPARATUS FOR ODU TO IDU TELEMETRY INTERFACE IN VSAT SYSTEMS



(57) Abstract: A single cable inter-facility link (16) is provided using an IDU-ODU telemetry interface employing an encoder in the status transmit circuitry (103) and in the control transmit circuitry (102) which encodes the appropriate data by integrating Manchester encoding, a preamble and postamble, and on-off keying to create a unique data packet scheme which is compatible with any existing inter-facility link protocol and which does not interfere with the DC power or normal data traffic. Together with a simple receiver structure implementing an adaptive threshold detector that decodes the telemetry data, any kind of information can be communicated between the IDU (12) and ODU (14) over a single cable (16). Control of the ODU (14) by the IDU (12) via a bi-directional half-duplex or full-duplex telemetry interface allows the IDU (12) to control the ODU settings.

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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
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0119797 A1 (WOODHEAD et al) 29 August 2002 (29.08.2002), see entire document.	1-15
Y	US 2002/0083458 A1 (HENDERSON et al) 27 June 2002 (27.06.2002), see entire document.	1-15
Y	US 2003/0053565 A1 (YANG et al) 20 March 2003 (20.03.2003), see entire document.	5, 10, 15

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