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(54) Title: SYSTEM EMPLOYING TONE OR TONE PATTERNS TO INDICATE MESSAGE TYPE IN WIRELESS SENSOR NETWORKS

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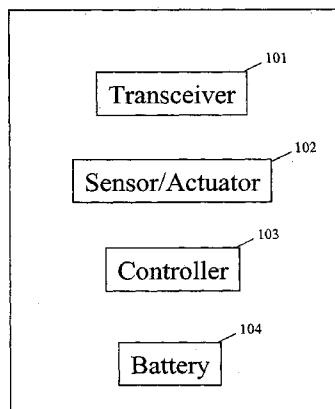


Figure 1

(57) Abstract: A system and method for operating a wireless network provides for sending a wakeup tone, periodically waking up from a sleep mode to listen for the wakeup tone, upon receiving the wakeup tone, listening for at least one second tone, the at least one second tone being one of (i) a tone in a frequency different from the wakeup tone and (ii) a pattern of tones including at least one frequency different from the wakeup tone, and upon receiving the at least one second tone, performing an action based on the at least one second tone.

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INTERNATIONAL SEARCH REPORT

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| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) USPC - 370/236 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC - 370/236 -- text search, see search terms below Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST(PGPB,USPT,USOC,EPAB,JPAB); DialogPRO(Engineering); Google Scholar Search Terms Used: wireless, network, sensor, actuator, sniff, node, tone, signal, pattern, wakeup, wake, up, awoken, idle, sleep, read, measur, message, type, monitor, integrity, action | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X --- | US 5,392,287 A (TIEDEMANN, JR. et al.) 21 February 1995 (21.02.1995), entire document especially Figs 1, 2a-2d, 3; col 1, ln 7-8, 55-56; col 2, ln 1-4, 19, 27-28; col 3, ln 18; col 4, ln 8-9; col 5, ln 67; col 6, ln 7-8, 19-20, 24-25, 63-64, 66-68; col 7, ln 1-12, 47-50; col 8, ln 40-42. | 1-3, 10, 11, 13, 17, 18 ----- 4-9, 12, 14-16, 19, 20 |
| Y | US 6,421,354 B1 (GODLEWSKI) 16 July 2002 (16.07.2002), especially Fig 1; col 1, ln 29-43; col 4, ln 32-34; col 5, ln 58-67. | 4, 12 |
| Y | US 6,590,893 B1 (HWANG et al.) 08 July 2003 (08.07.2003), especially Figs 1, 3a-3d; col 3, ln 34-46; col 5, ln 8-11, 23-27, 31-35; col 6, ln 22-25, 39-49; col 8, ln 62-64. | 5-9, 14-16, 19, 20 |
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