

## United States Patent [19]

### Carvey

### **Patent Number:**

6,128,290

**Date of Patent:** [45]

\*Oct. 3, 2000

[54]	PERSONAL DATA NETWORK		5,297,142	3/1994	Paggeot et al 370/461
			5,307,297	4/1994	Iguchi et al 364/708.1
[75]	Inventor:	Philip P. Carvey, Bedford, Mass.	5,371,734	12/1994	Fischer 370/311
			5,481,265	1/1996	Russell 341/22
[73]	Assignee:	BBN Corporation, Cambridge, Mass.	5,517,505	5/1996	Buchholz et al 370/350
		The second section of the second seco	5,598,419	1/1997	Weigand et al 370/514

[\*] Notice: This patent is subject to a terminal disclaimer.

[21] Appl. No.: 08/949,999

[22] Filed: Oct. 14, 1997

### Related U.S. Application Data

Continuation-in-part of application No. 08/611,695, Mar. 6, 1996, Pat. No. 5,699,357.

Int. Cl.<sup>7</sup> ...... H04B 7/212 [51] [52] 370/509; 455/89; 364/708.1

370/442, 509, 512; 455/89; 364/708.1

#### [56] References Cited

### U.S. PATENT DOCUMENTS

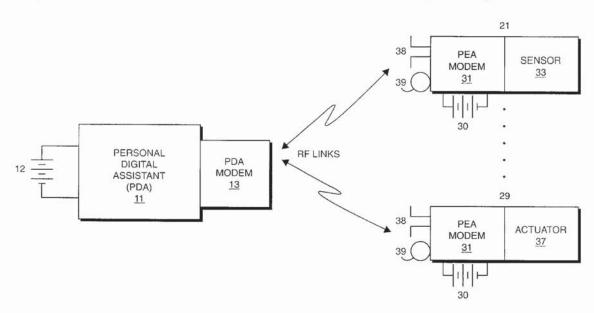
Primary Examiner—Huy D. Vu Assistant Examiner-Jasper Kwoh

Attorney, Agent, or Firm-Leonard Charles Suchyta; Floyd E. Anderson

#### [57] ABSTRACT

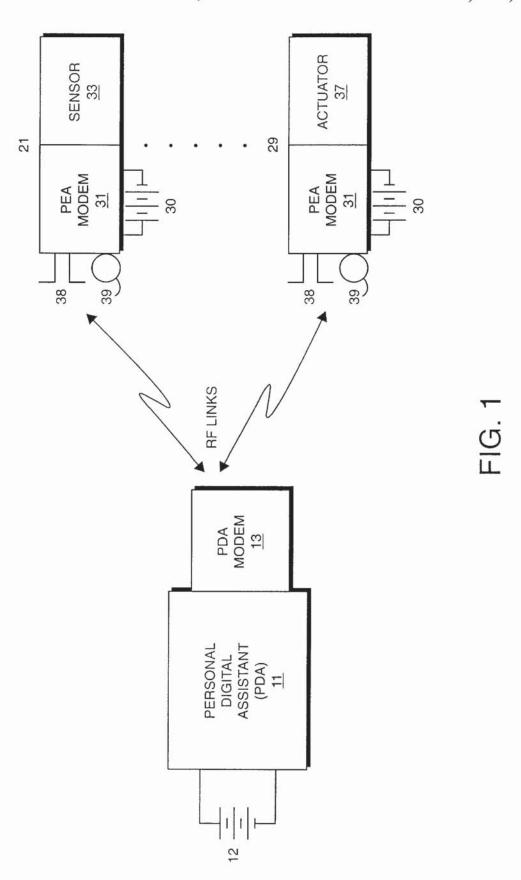
The data network disclosed herein utilizes low duty cycle pulsed radio frequency energy to effect bidirectional wireless data communication between a server microcomputer unit and a plurality of peripheral units located within short range of the server unit, e.g. within 20 meters. By establishing a tightly synchronized common time base between the units and by the use of sparse codes, timed in relation to the common time base, low power consumption and avoidance of interference between nearby similar systems is obtained.

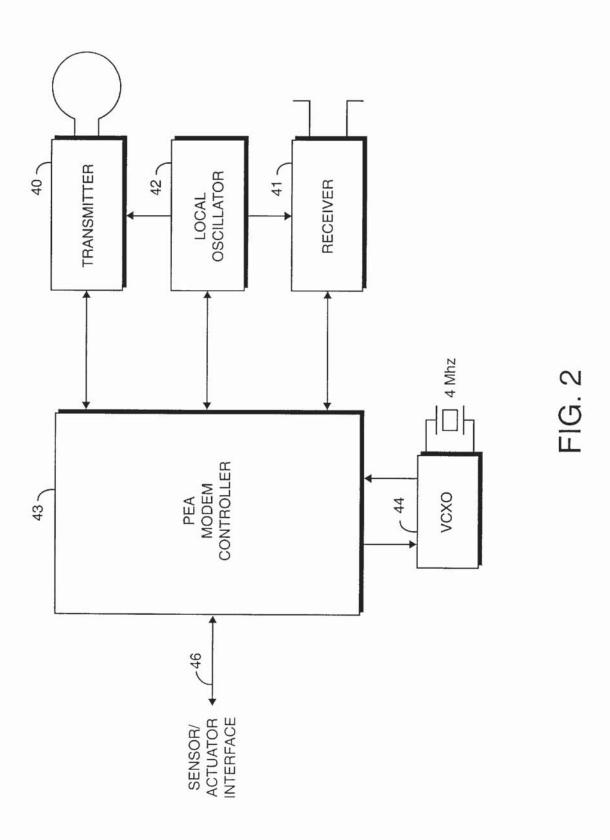
### 11 Claims, 8 Drawing Sheets



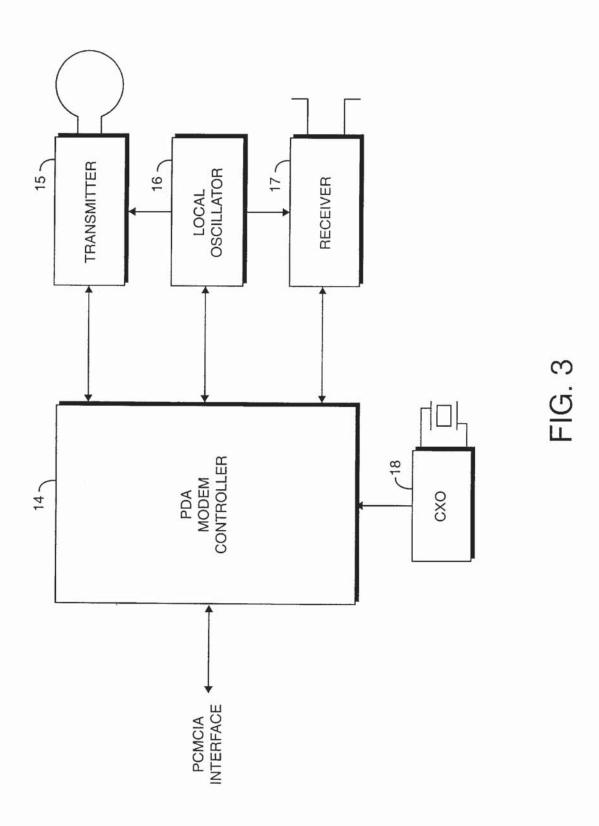
APL 1001













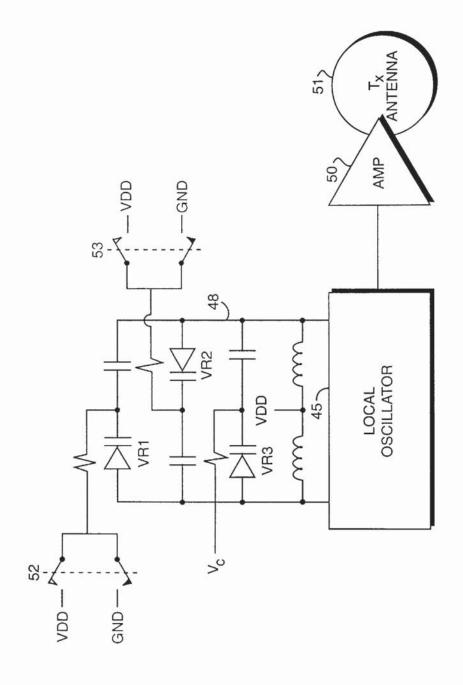


FIG. 4

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