EXHIBIT DSS-2001





Patent Number:

[11]

United States Patent [19]

Carvey

5,699,357 Date of Patent: Dec. 16, 1997 [45]

[54]	PERSONAL DATA NETWORK
[75]	Inventor: Philip P. Carvey, Bedford, Mass.
[73]	Assignee: BBN Corporation, Cambridge, Mass.
[21]	Appl. No.: 611,695
[22]	Filed: Mar. 6, 1996
[51]	Int. Cl. ⁶ H04J 3/06
[52]	U.S. Cl.
[58]	Field of Search
[56]	References Cited
	U.S. PATENT DOCUMENTS

5,247,285 9/1993 Yokota et al. 364/708.1

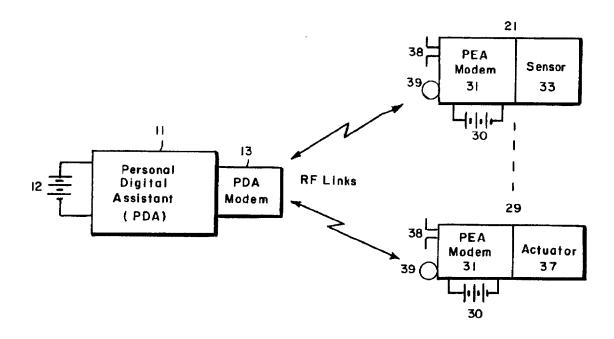
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5,307,297	4/1994	Iguchi et al 364/708.1
5,371,734	12/1994	Fischer.
5,481,265	1/1996	Russell .

Primary Examiner-Wellington Chin Assistant Examiner-Huy D. Vu Attorney, Agent, or Firm-Henry D. Pahl, Jr.

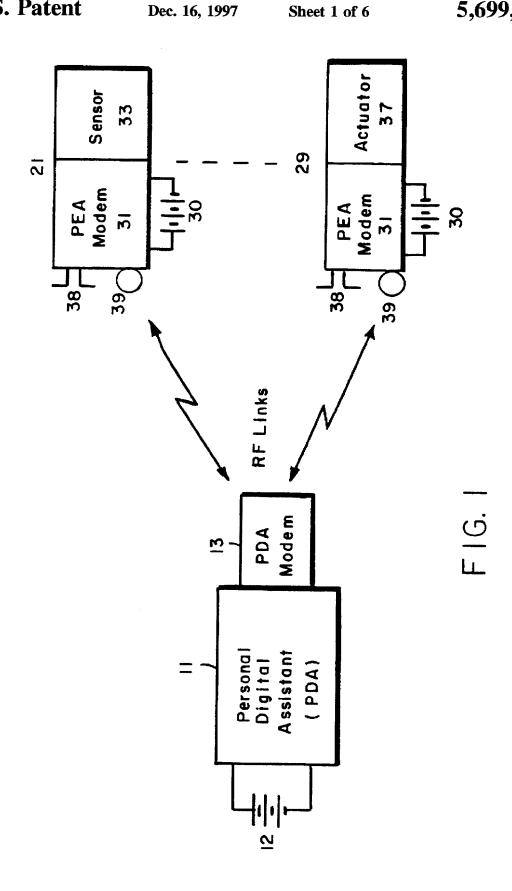
[57] ABSTRACT

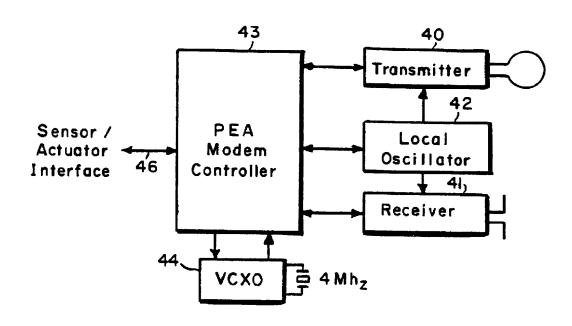
The data network disclosed herein utilizes low duty cycle pulsed radio frequency energy to effect bidirectional wireless data communication between a server microcomputer unit and a plurality of peripheral units, each of which is intended to be carried on the person of the microcomputer user. By establishing 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.

18 Claims, 6 Drawing Sheets









Dec. 16, 1997

FIG. 2

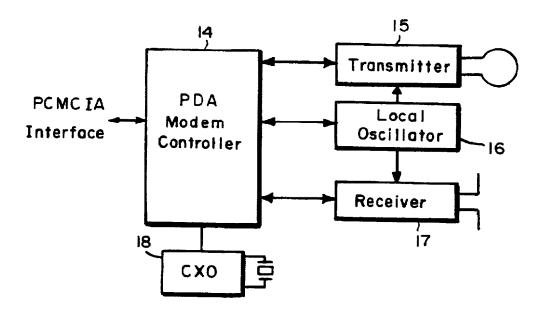
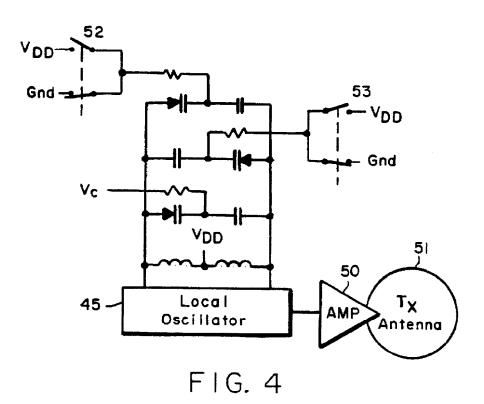


FIG. 3



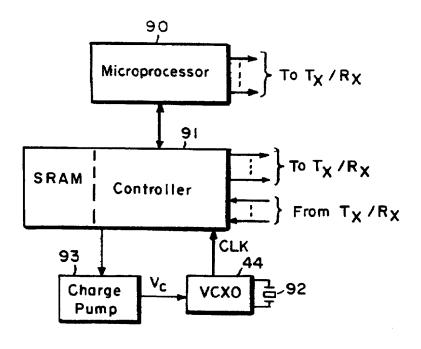


FIG. 7

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