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Mikhak

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(54) **WIRELESS CABLE REPLACEMENT SYSTEM**

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(Under 37 CFR 1.47)

Related U.S. Application Data

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(51) **Int. Cl.**
H04B 7/00 (2006.01)

(52) **U.S. Cl.** **455/41.2**; 455/424; 455/426.2; 455/557; 455/556.1; 370/259; 370/337

(58) **Field of Classification Search** 455/41.2, 455/424, 445, 425, 500, 414.1, 426.2, 436, 455/426.1; 370/346, 466, 436, 401, 330, 370/337, 232; 375/222, 322, 133
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,259,891 B1 * 7/2001 Allen 455/3.02

2002/0008145 A1*	1/2002	Walsh et al.	235/462.46
2002/0073254 A1*	6/2002	Bertsch	710/100
2004/0057393 A1*	3/2004	Bianchi et al.	370/312
2004/0151212 A1*	8/2004	Gerszberg et al.	370/535
2004/0253924 A1*	12/2004	Acampora	455/41.2
2005/0164684 A1*	7/2005	Chen et al.	455/414.1
2006/0129656 A1*	6/2006	Cianciarulo et al.	709/217

FOREIGN PATENT DOCUMENTS

EP	0878936	11/1998
WO	WO98/49850	11/1998
WO	WO99/53680	10/1999

OTHER PUBLICATIONS

Haartsen J: "Bluetooth—The Universal Radio Interface for AD HOC, Wireless Connectivity" Ericsson Review, Ericsson, Stockholm, SE, No. 3, 1998, pp. 110-117, XP000783249 ISSN: 0014-0171.

* cited by examiner

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(57) **ABSTRACT**

A wireless cable replacement system. A personal area network, comprising a device having a first wireless transceiver, and an adapter having a second wireless transceiver in communication with the first wireless transceiver, and a plug capable of mating to a jack coupled to a local backbone.

82 Claims, 10 Drawing Sheets

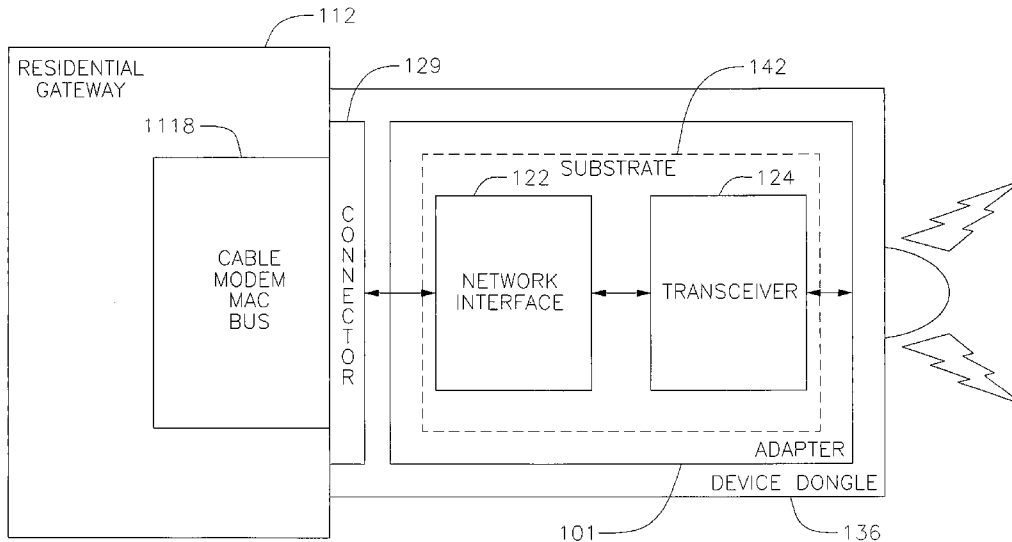
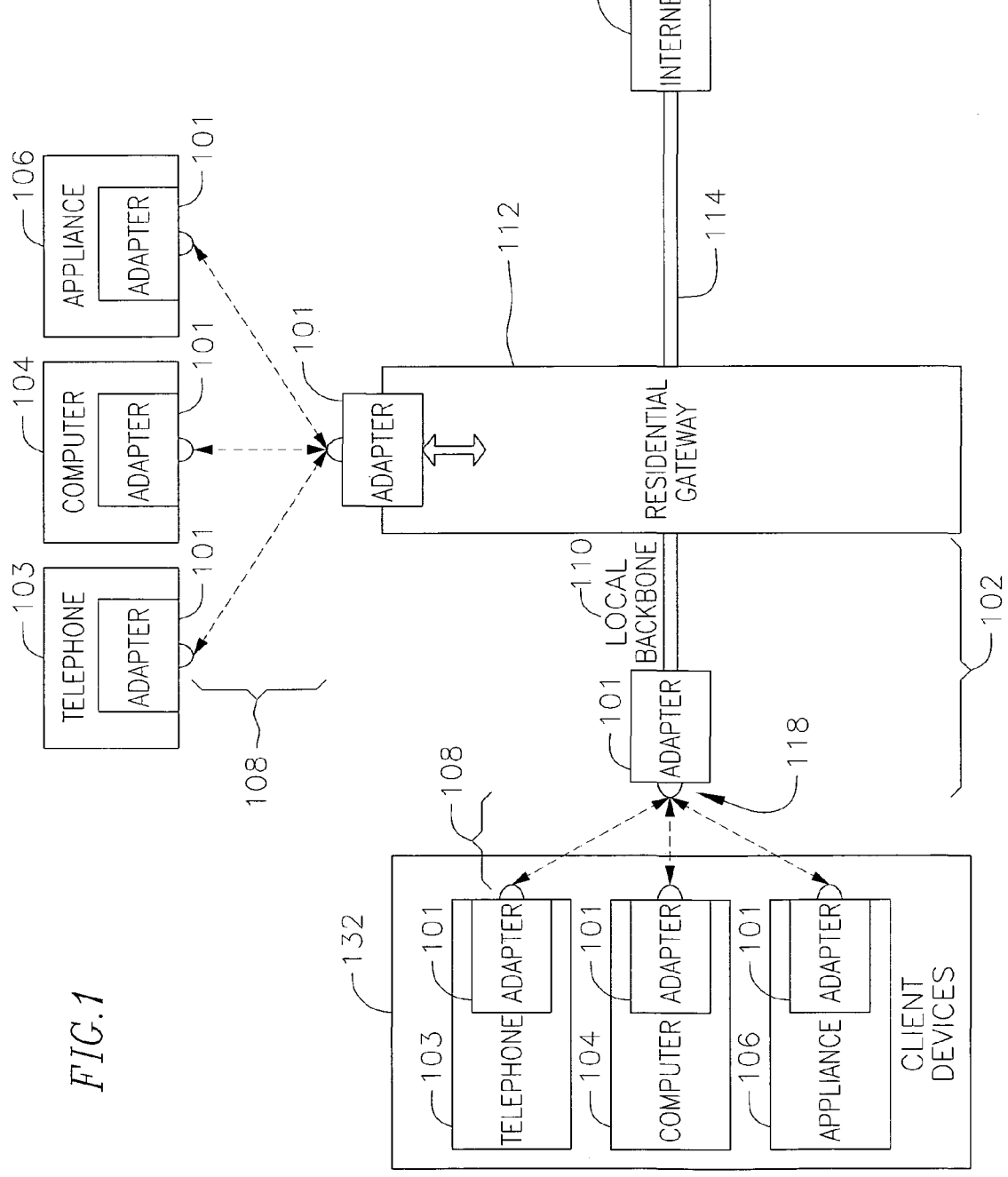
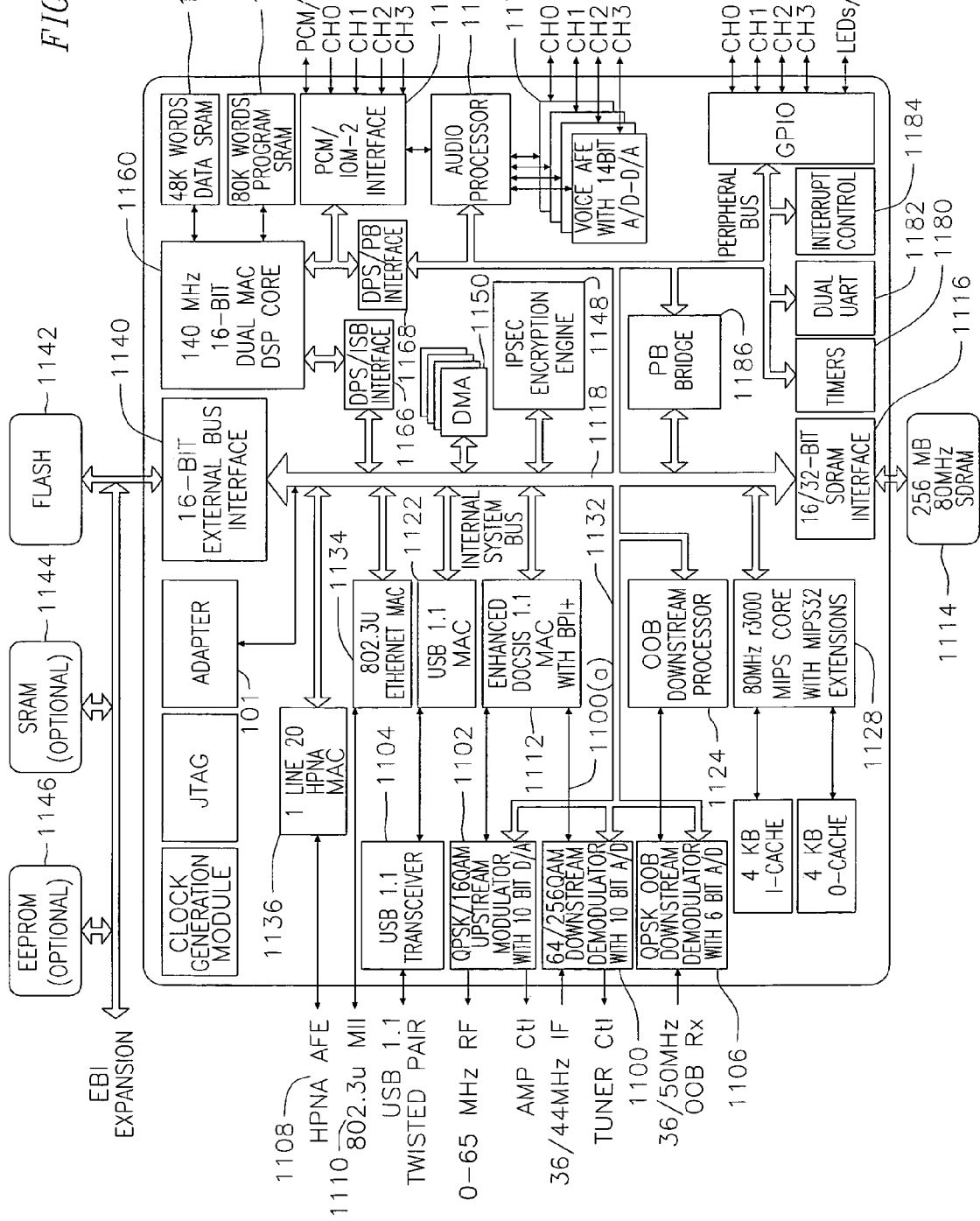


FIG. 1





FIG

FIG. 3

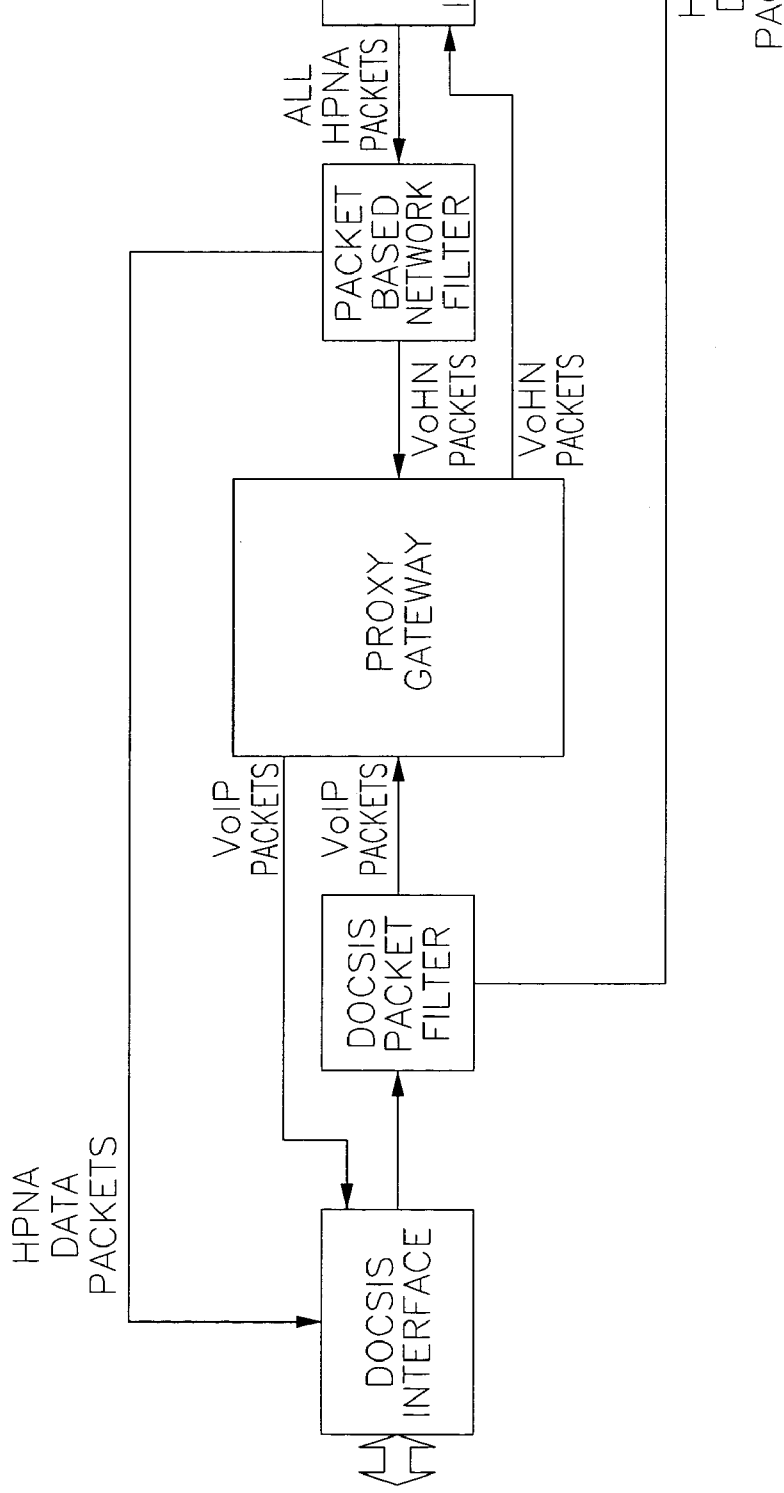
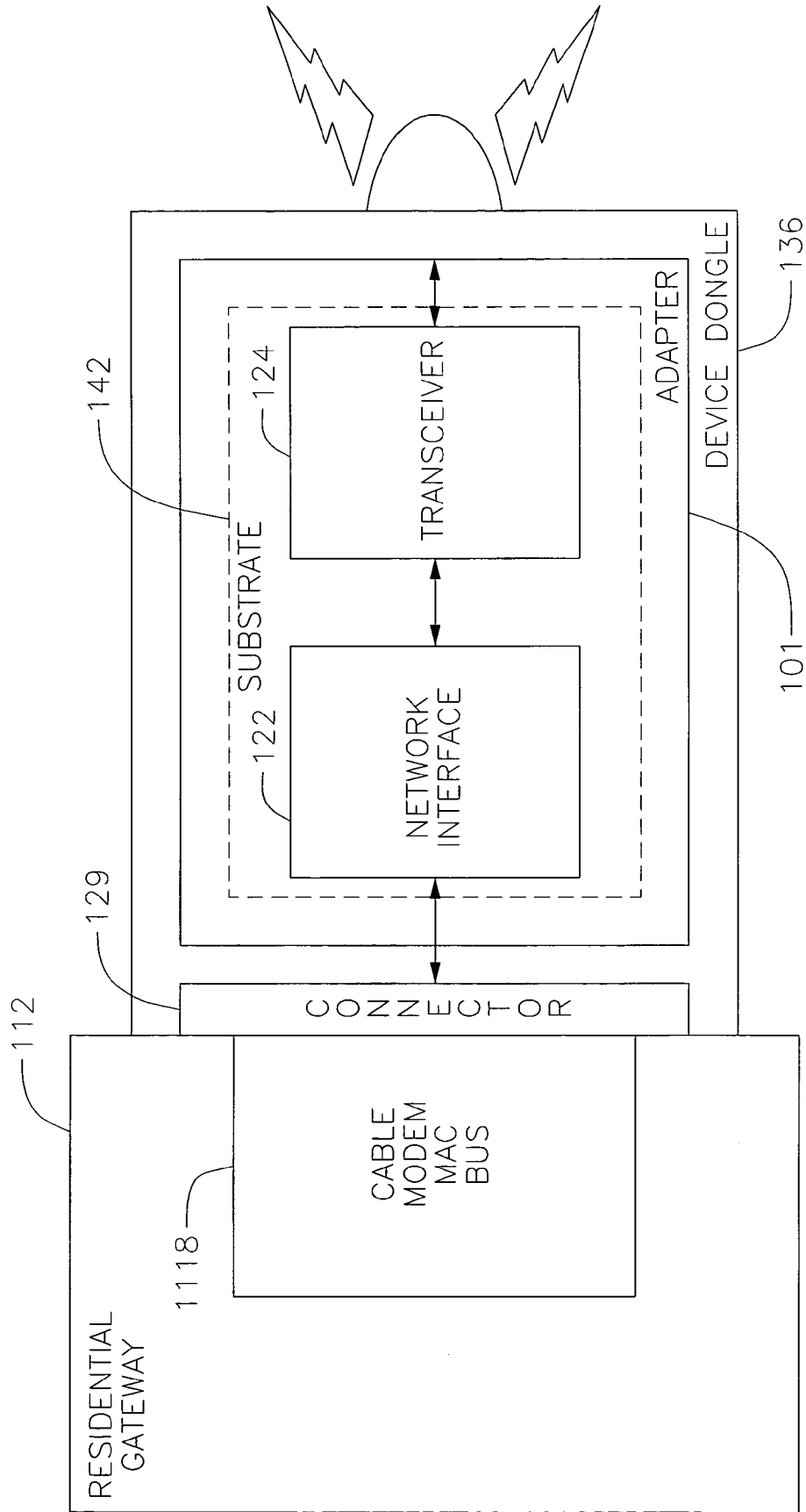


FIG. 4



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