

Exhibit 1001

(54) **DUAL MODE UNIT FOR SHORT RANGE, HIGH RATE AND LONG RANGE, LOWER RATE DATA COMMUNICATIONS**

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This patent is subject to a terminal disclaimer.

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Related U.S. Application Data

(57)

ABSTRACT

(63) Continuation of application No. 11/326,809, filed on Jan. 6, 2006, now Pat. No. 7,616,970, which is a continuation of application No. 10/358,082, filed on Feb. 3, 2003, now Pat. No. 7,013,162, and a continuation of application No. 10/341,528, filed on (Continued)

A technique for communication with a local area network (LAN) via a wireless connection determines whether a first short-range, high-speed, wireless communication path is available and connects to the LAN using a longer range, lower speed wireless communication path if the short-range, high-speed wireless communication path is not available. The low-range, high-speed wireless communication path is a wireless communication path is a wireless LAN connection such as an IEEE 802.11-compliant wireless LAN and the long-range, low-speed wireless communication mode is a cellular CDMA-type connection. Determining whether the first IEEE 802.11 mode is available can be done by detecting a beacon signal, or transmitting a probe request message and detecting a probe response message in response to the probe request, indicating the presence or availability of the short-range, high-speed wireless communication path. Alternatively, the availability of short-range, high-speed wireless communication path can be detected by simply detecting activity on it.

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H04M 1/00 (2006.01)

(52) **U.S. Cl.** **455/553.1**; 455/552.1

(58) **Field of Classification Search** 455/553.1, 455/552.1

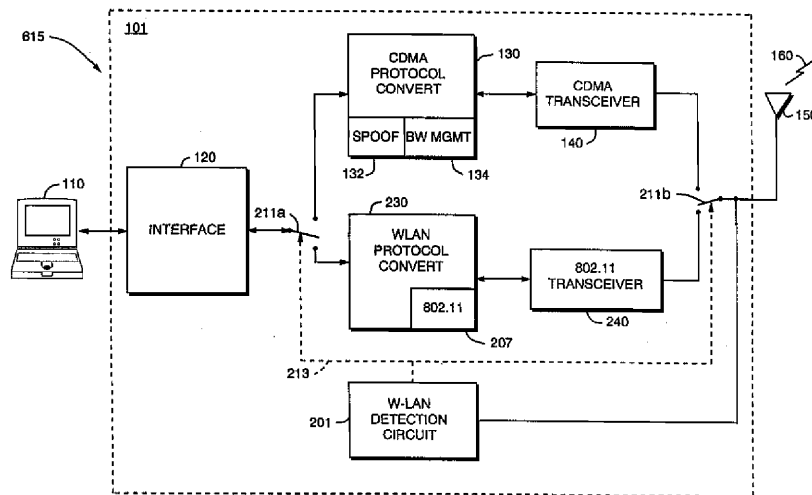
See application file for complete search history.

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44 Claims, 6 Drawing Sheets



Related U.S. Application Data

Jan. 13, 2003, now Pat. No. 7,024,222, which is a continuation of application No. 09/400,136, filed on Sep. 21, 1999, now Pat. No. 6,526,034, said application No. 10/358,082 is a continuation of application No. 09/400,136, filed on Sep. 21, 1999, now Pat. No. 6,526,034.

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