

(12) **United States Patent**
Gernert et al.

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(54) **APPARATUS FOR INTERFACING A WIRELESS LOCAL NETWORK AND A WIRED VOICE TELECOMMUNICATIONS SYSTEM**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(51) **Int. Cl.**⁷ **H04L 12/66**

(52) **U.S. Cl.** **370/352; 370/328; 455/403**

(58) **Field of Search** **370/312, 313, 370/328, 401, 329, 349, 352-358; 455/432, 403, 425, 550, 575**

(56) **References Cited**

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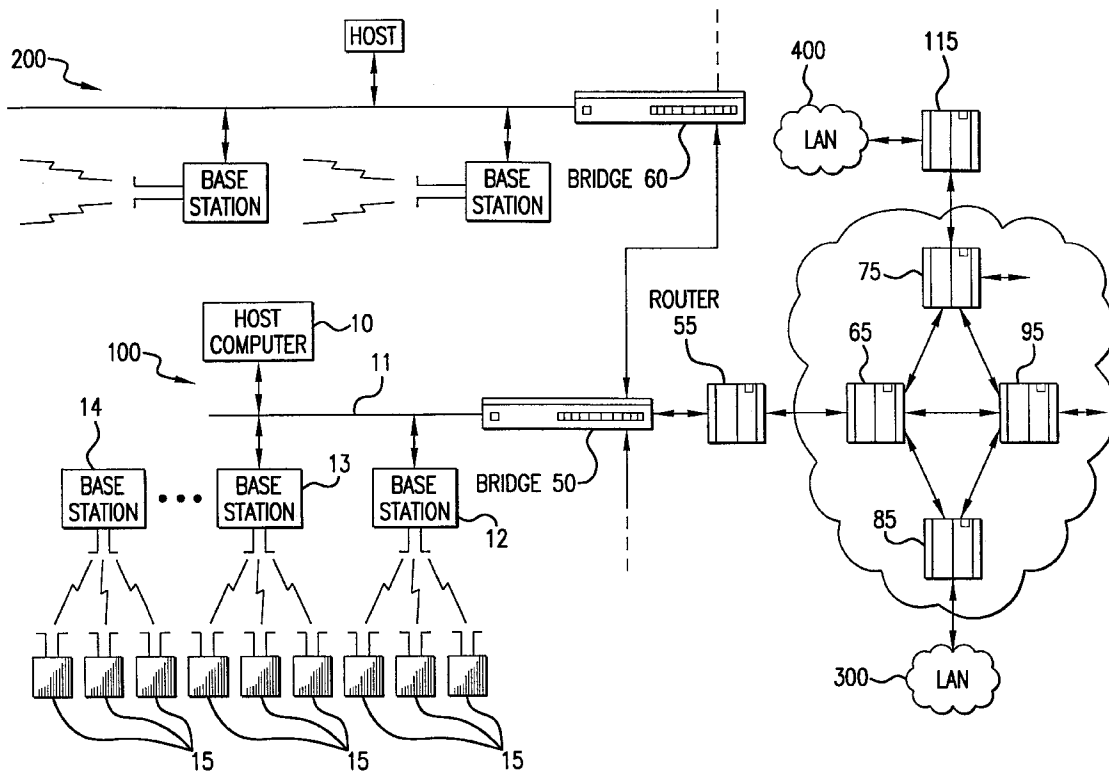
* cited by examiner

Primary Examiner—Wellington Chin
Assistant Examiner—Brenda Pham

(57) **ABSTRACT**

An apparatus for interfacing a wireless local area network with a wide area, cellular or public switched telephone network including the function of a wireless LAN base station or access point, and a gateway. The interface may contain one or more different types of gateways, including a PSTN voice gateway, an analog modem gateway, and others. The apparatus may also include a well designed to receive the handset or mobile computer device to recharge the battery as well as to automatically transfer data when the phone or device is secured in the well.

11 Claims, 7 Drawing Sheets



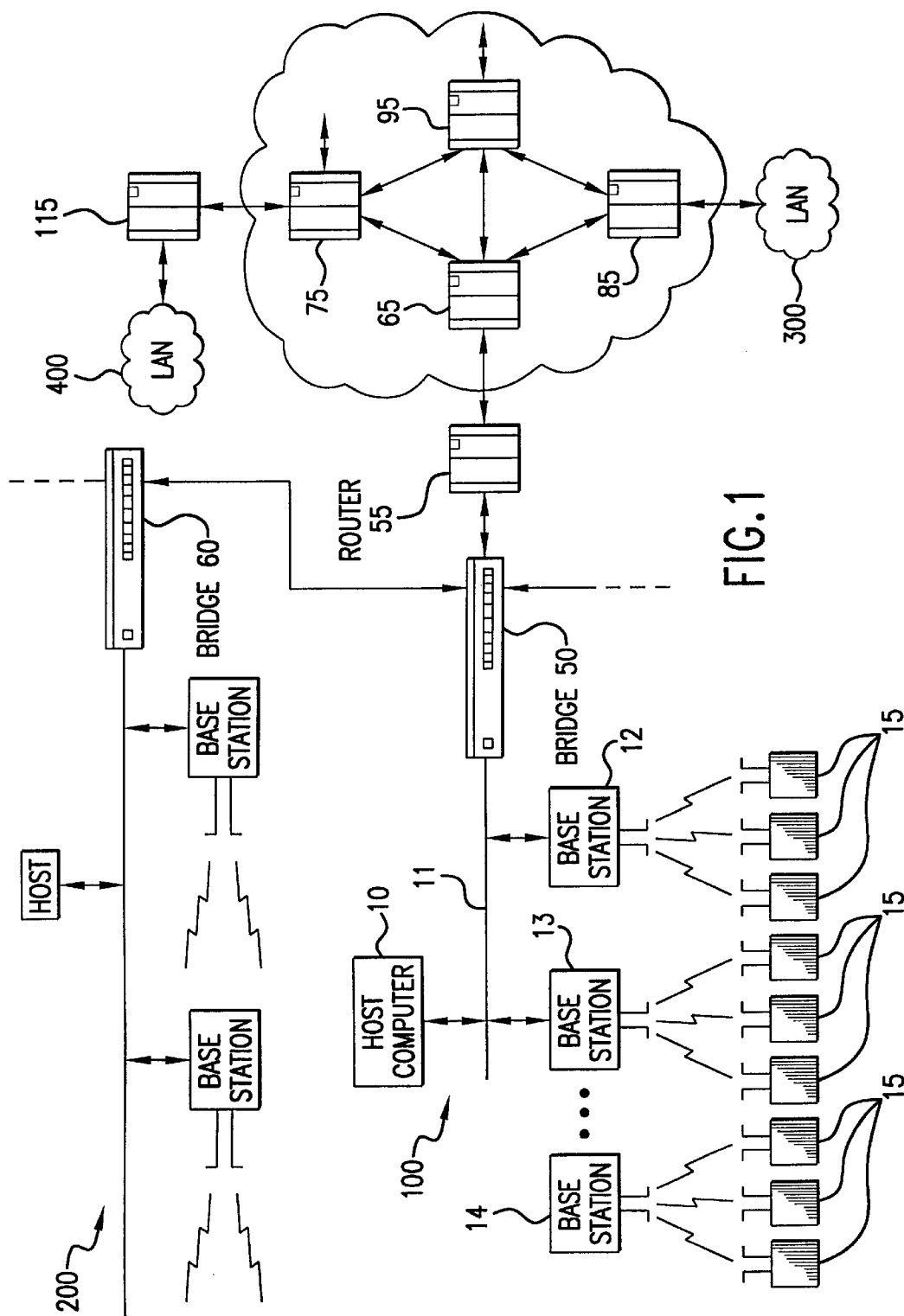


FIG. 1

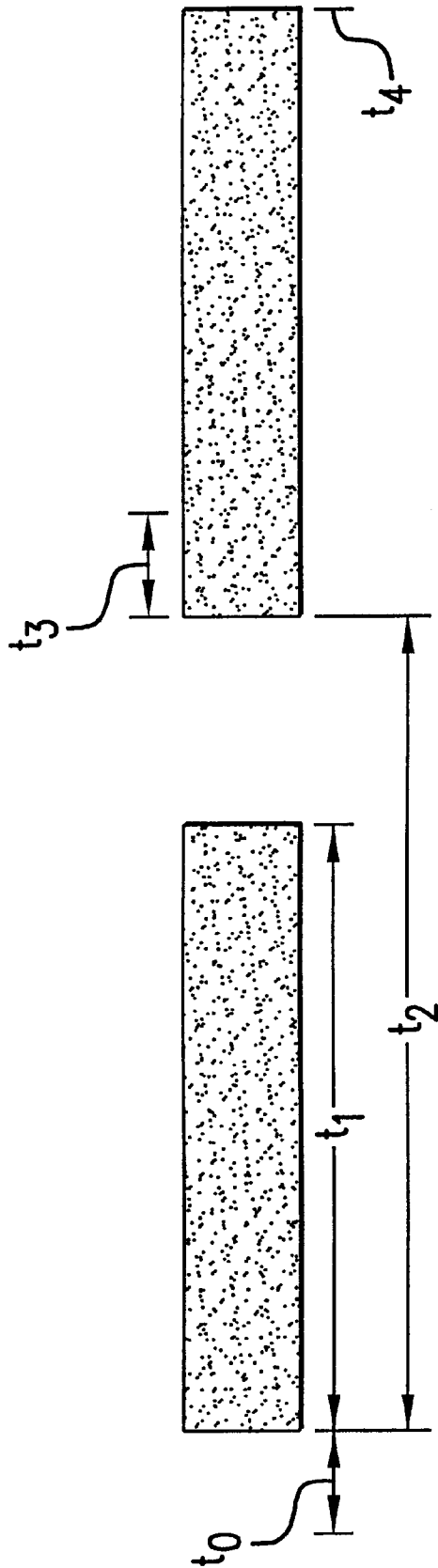


FIG.2

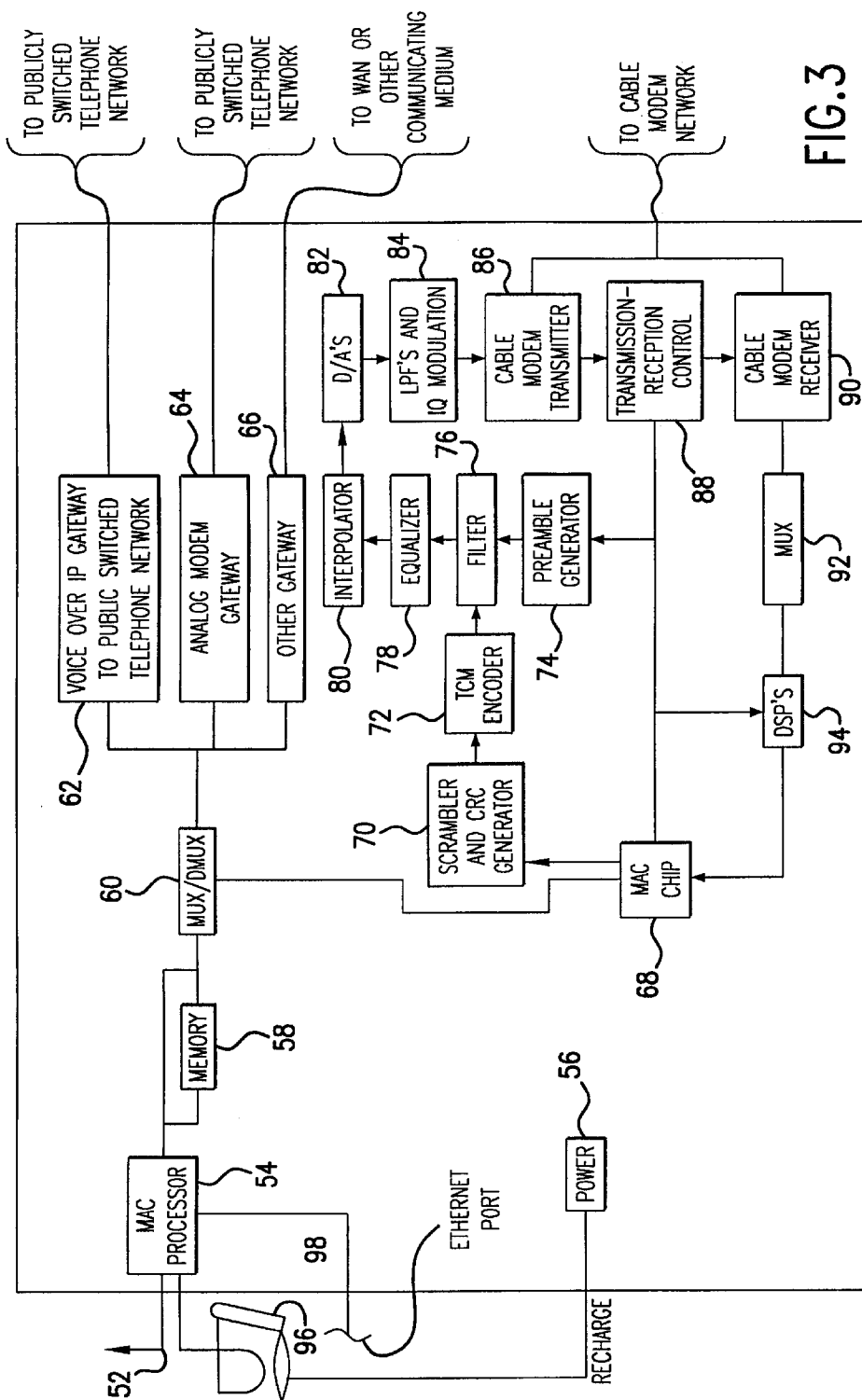


FIG. 3

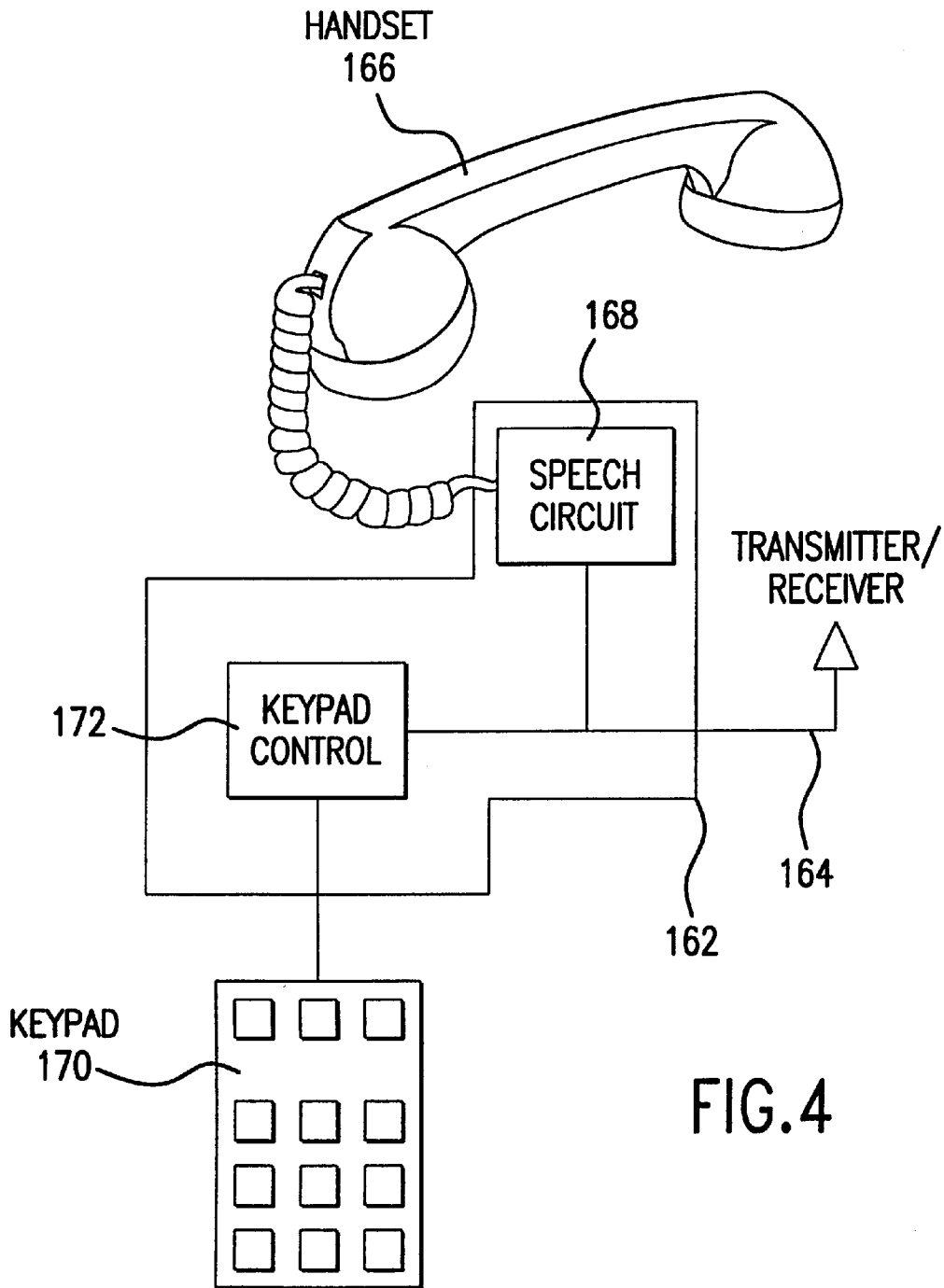


FIG. 4

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