



[54] POWER-SAVING ARRANGEMENT AND METHOD FOR MOBILE UNITS IN COMMUNICATIONS NETWORK

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Related U.S. Application Data

[63] Continuation-in-part of application No. 08/549,051, Oct. 27, 1995, Pat. No. 5,815,811, which is a continuation-in-part of application No. 08/044,648, Apr. 8, 1993, Pat. No. 5,528,621, which is a continuation-in-part of application No. 07/799,172, Nov. 27, 1991, Pat. No. 5,280,498, which is a continuation-in-part of application No. 07/635,859, Dec. 28, 1990, Pat. No. 5,142,550, which is a continuation-in-part of application No. 07/374,452, Jun. 29, 1989, Pat. No. 5,029,183.

[51] Int. Cl.<sup>6</sup> ..... H04Q 7/32; H04B 1/16; H04B 7/00

[52] U.S. Cl. .... 455/38.3; 455/38.4; 455/566; 455/574; 455/343

[58] Field of Search ..... 455/412, 414, 455/31.2, 31.3, 38.3, 38.4, 466, 503, 507, 517, 526, 566, 434, 343, 574, 500

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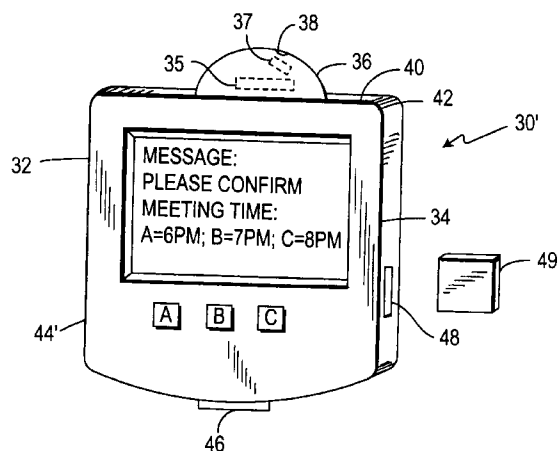


Table with 4 columns: Patent No., Date, Inventor, and Page No. (e.g., 5,519,762 5/1996 Bartlett ..... 455/38.3)

OTHER PUBLICATIONS

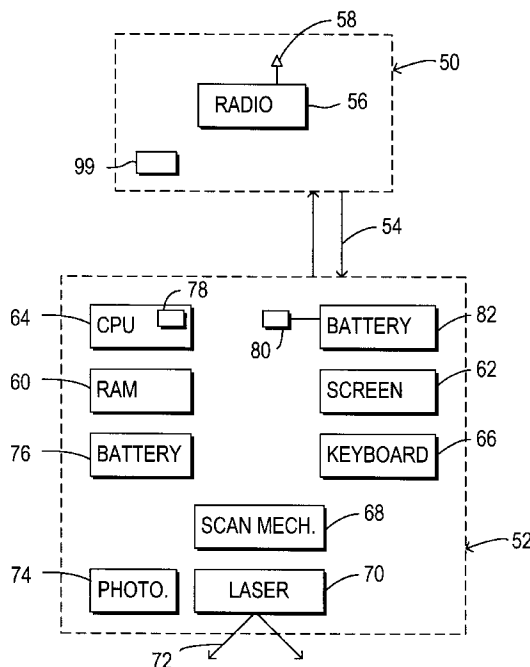
Wireless LAND Medium Access Control (MAC) and Physical Layer (PHY) Specifications, The Editors of IEEE, p. 802.11, May 20, 1996.

Primary Examiner—Willis R. Wolfe
Attorney, Agent, or Firm—Kirschstein, et al.

[57] ABSTRACT

A communications network comprising a cellular local area wireless network includes a plurality of access points connected to a housed computer and each other, and a plurality of mobile units each mobile unit being arranged for association with an access point. The mobile units are arranged to periodically scan for and identify the most eligible access point for association on the basis of the criteria of best quality signal strength and loading factor.

29 Claims, 7 Drawing Sheets



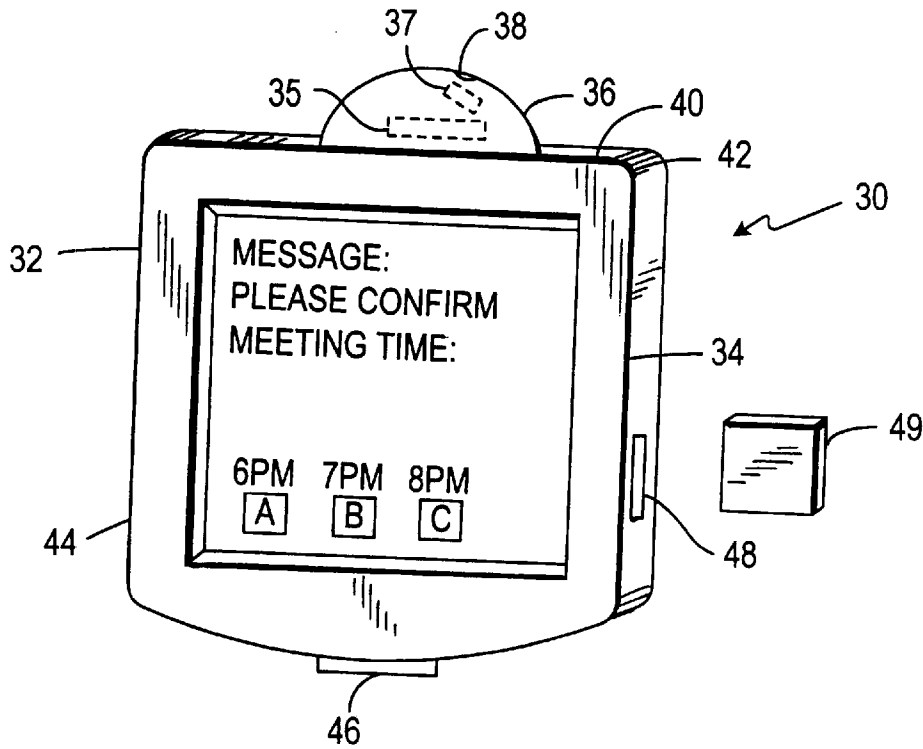


FIG. 1

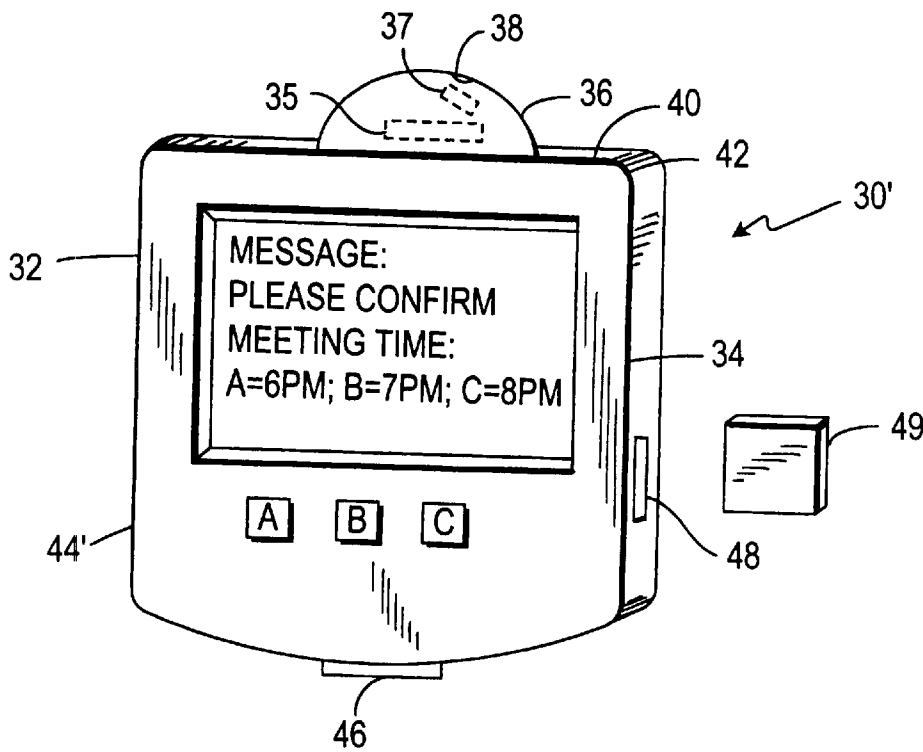
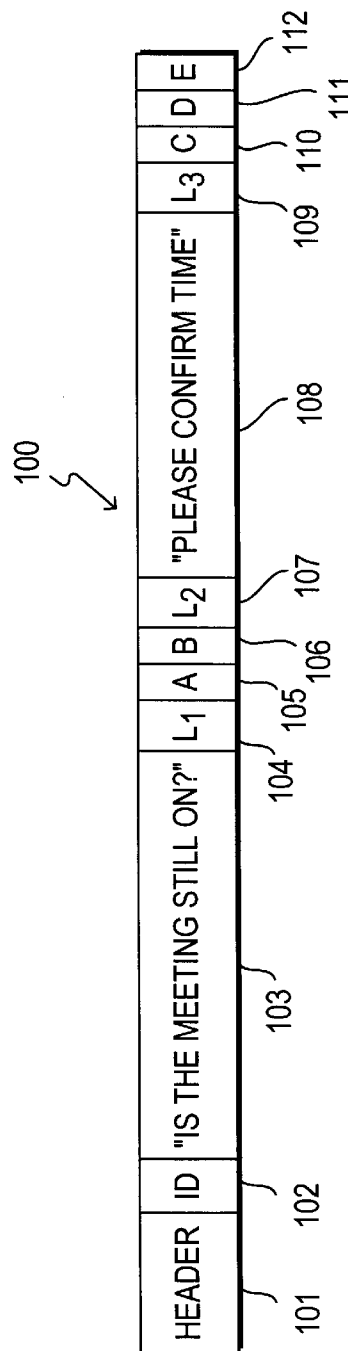
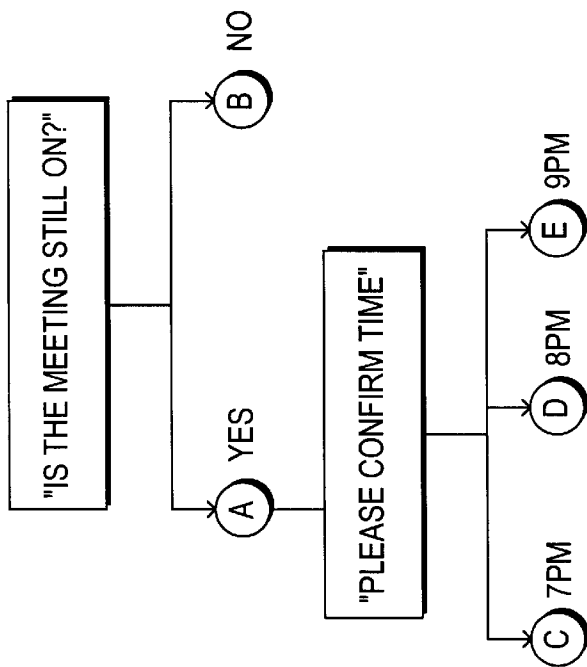


FIG. 2



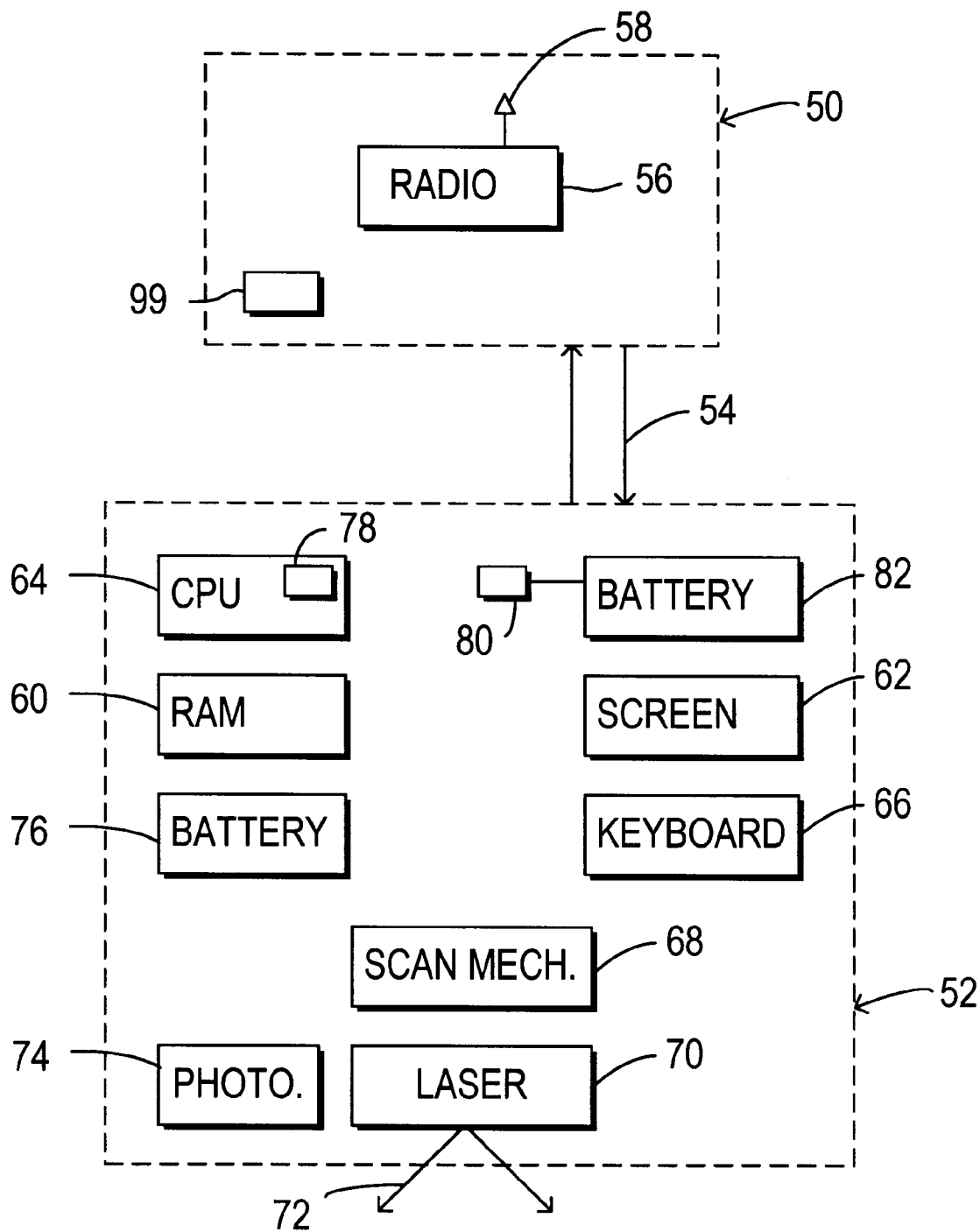


FIG. 2B

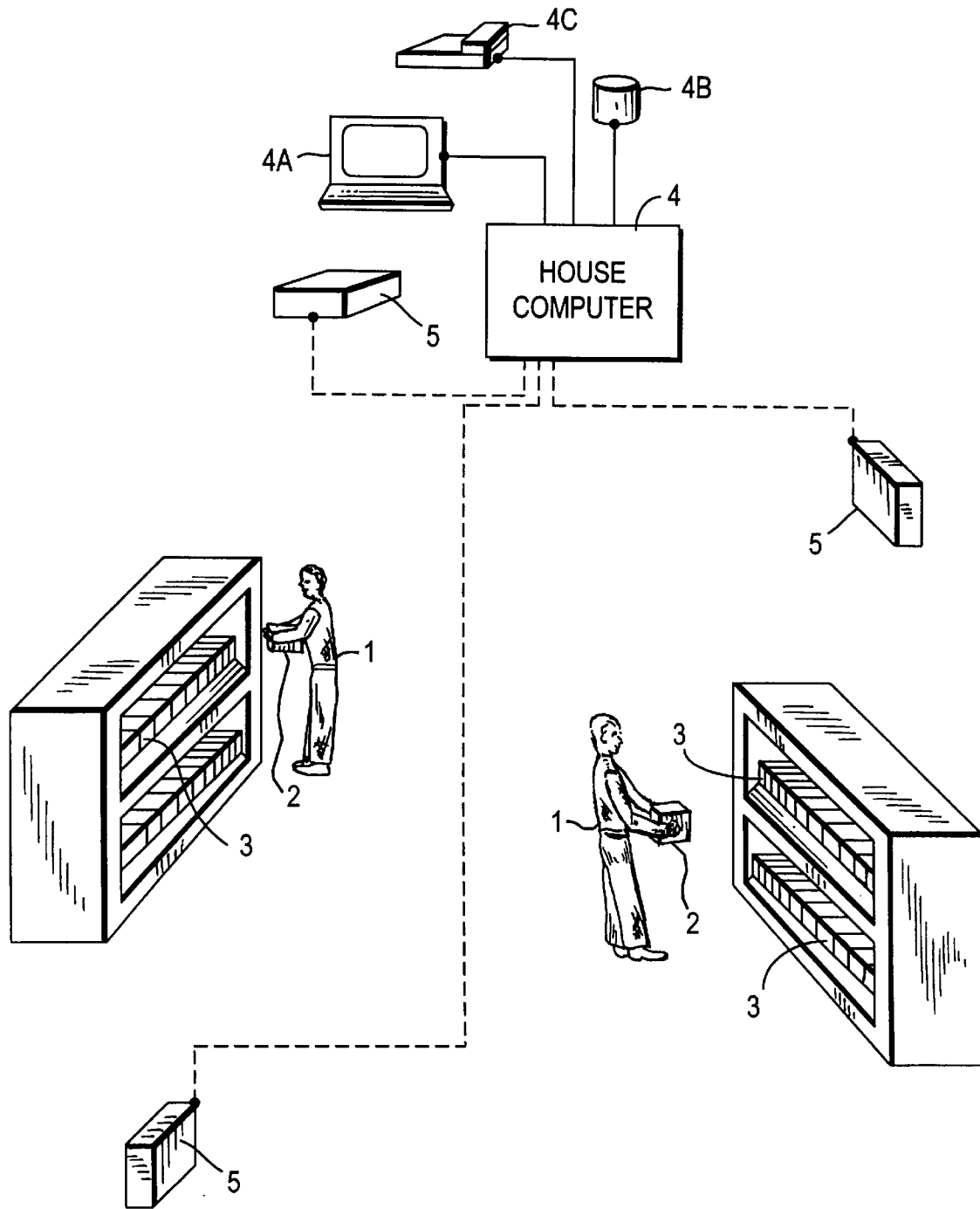


FIG. 3

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