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United States Patent [19] Bilgic

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[54] **COMPUTER PROGRAM HAVING PLURALITY OF SUBTASKS FOR USE IN BASE STATION AND EACH SUBTASK CAPABLE OF BEING MODIFIED TO ALTER THE FUNCTIONALITY OF THE PROGRAM**

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[51] Int. Cl.⁶ **G06F 13/00**

[52] U.S. Cl. **395/200.51**; 395/677; 455/418

[58] Field of Search 455/418, 419, 455/422, 435, 436, 437, 517; 395/200.51, 200.72, 670, 671, 672, 673, 677

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Primary Examiner—Moustafa M. Meky

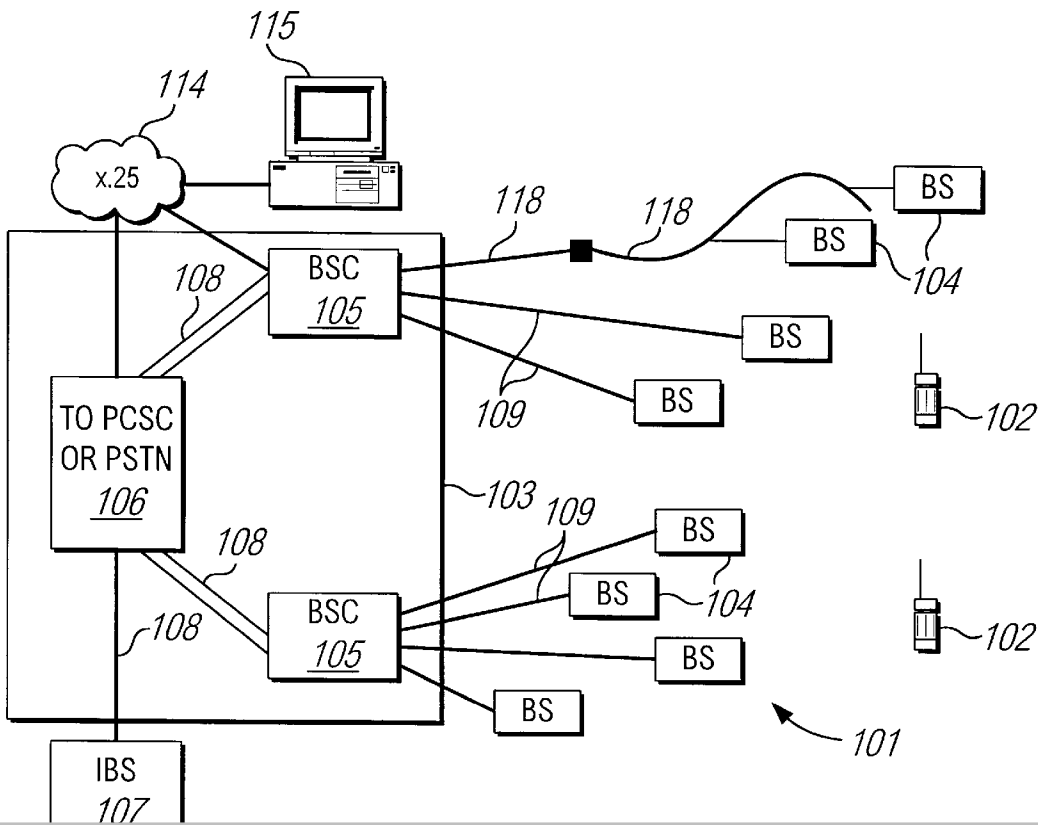
20 Claims, 98 Drawing Sheets

Attorney, Agent, or Firm—Lyon & Lyon LLP

[57] **ABSTRACT**

A computer program for a base station in a wireless communication system to communicate on the system. The communication protocol embodied in the computer program enables the base station to help users of the communication system to acquire a channel on the base station, for communications with the base station. The communication protocol embodied in the computer program also enables the base station to register a user on the system. The communication protocol embodied in the computer program also enables the base station to page a user, and then establish a call link on the system for the user, for a call to the user. The communication protocol embodied in the computer program enables the base station to establish a call link on the system for a call initiated by the user. The communication protocol embodied in the computer program also allows the base station to accept a handover of an established call link on the communication system, from another base station in the system.

The computer program is comprised of a main controller task, an LPI task, and various other tasks, also called subtasks. The main controller task directs the various other tasks to perform discrete communication protocol functions for the base station. The LPI task is the base station's interface task with the backhaul interface.



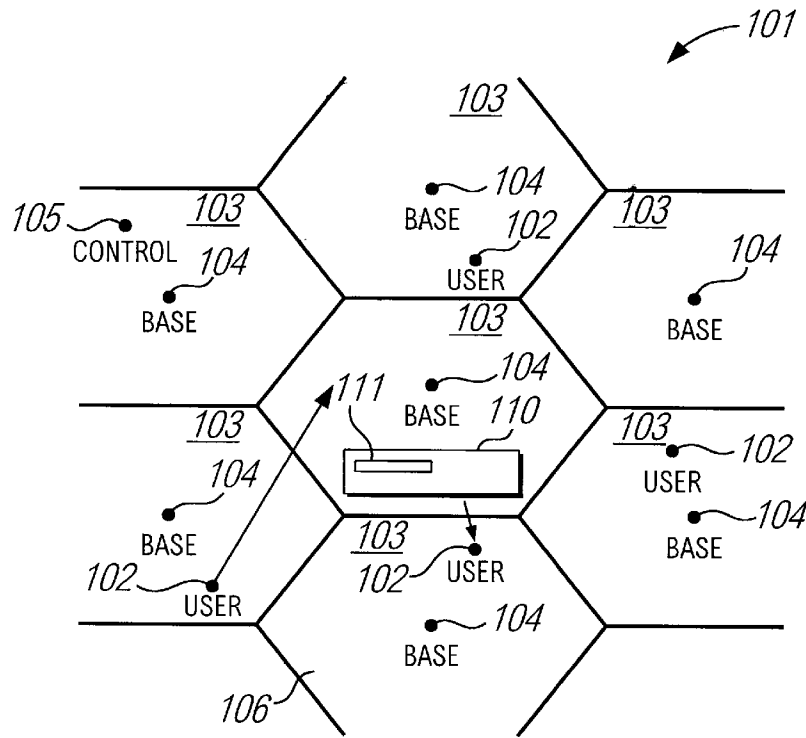


FIG. 1A

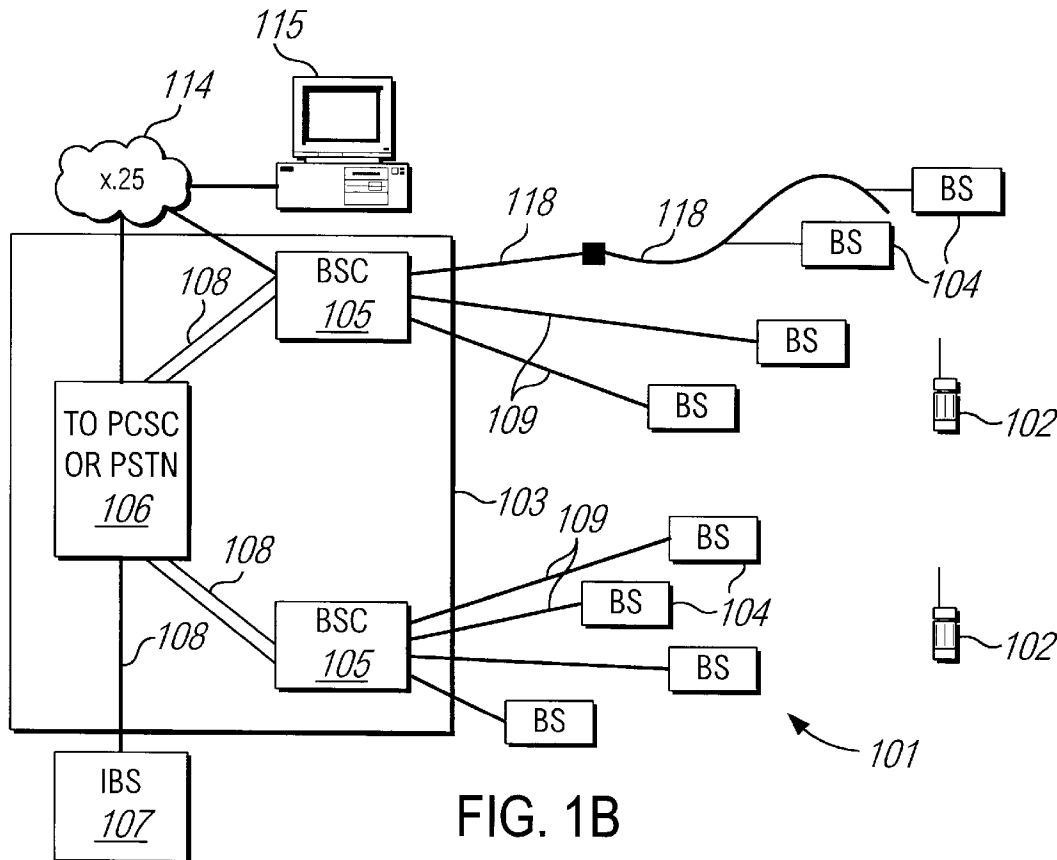


FIG. 1B

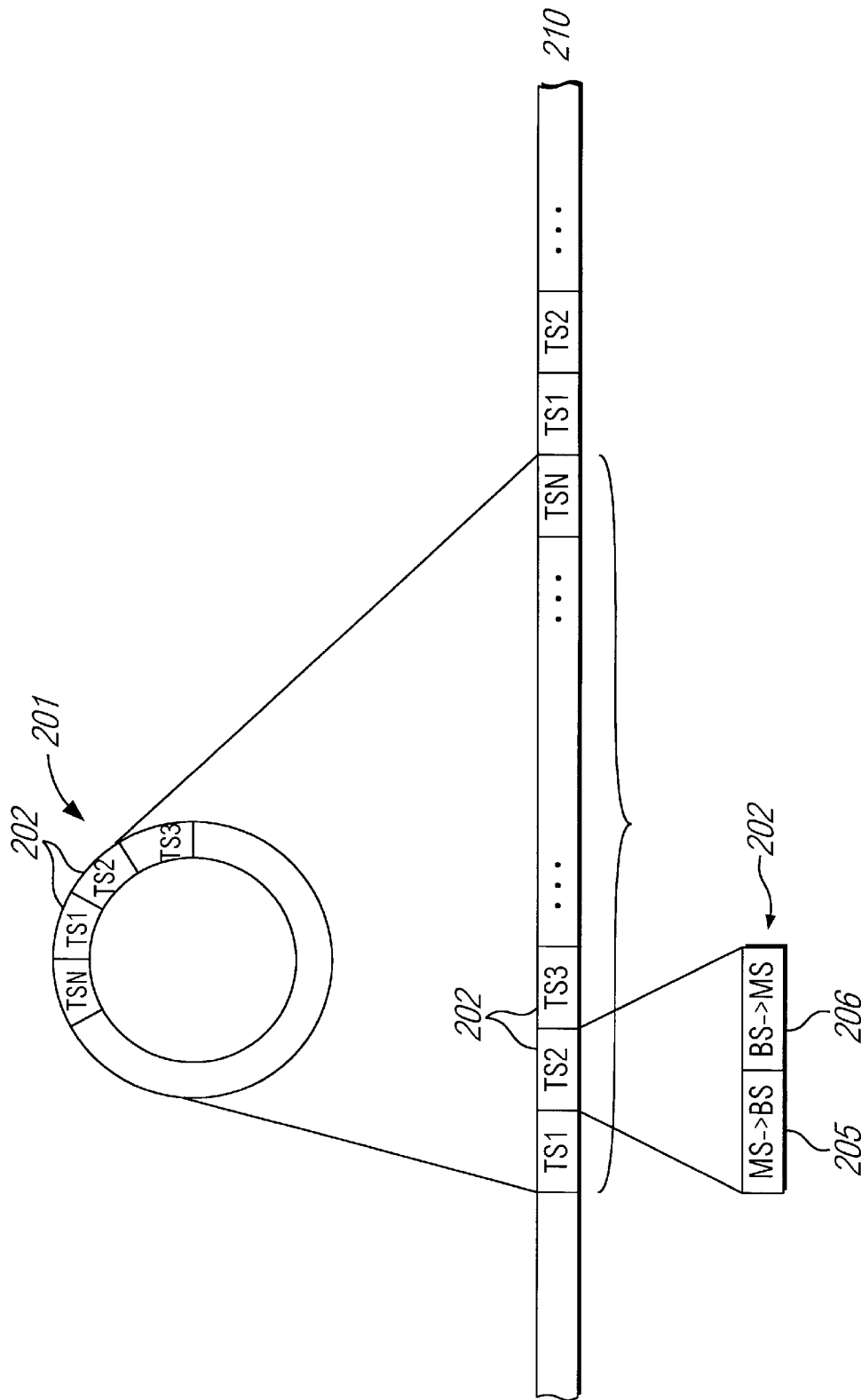


FIG. 2

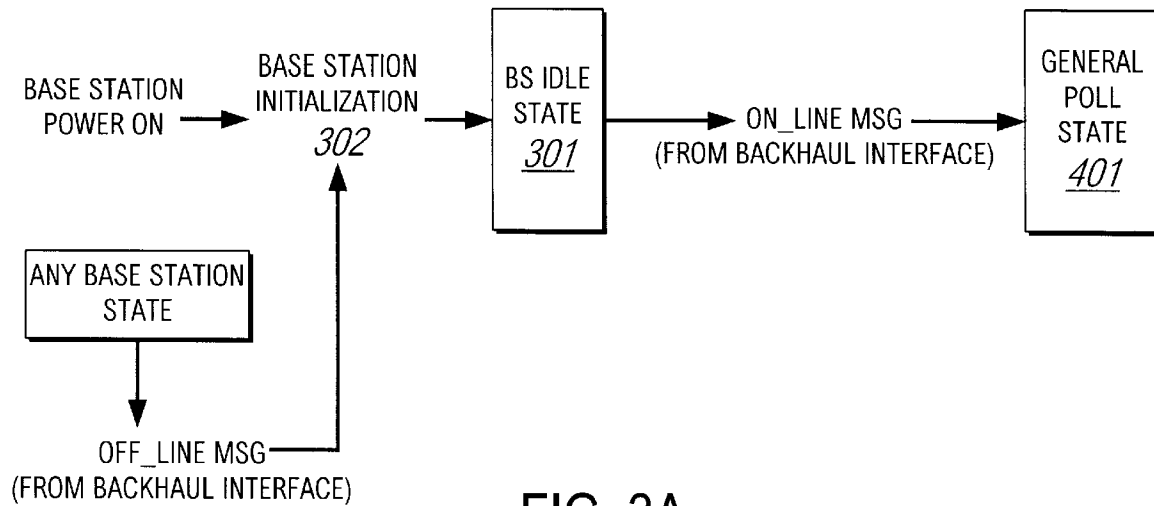


FIG. 3A

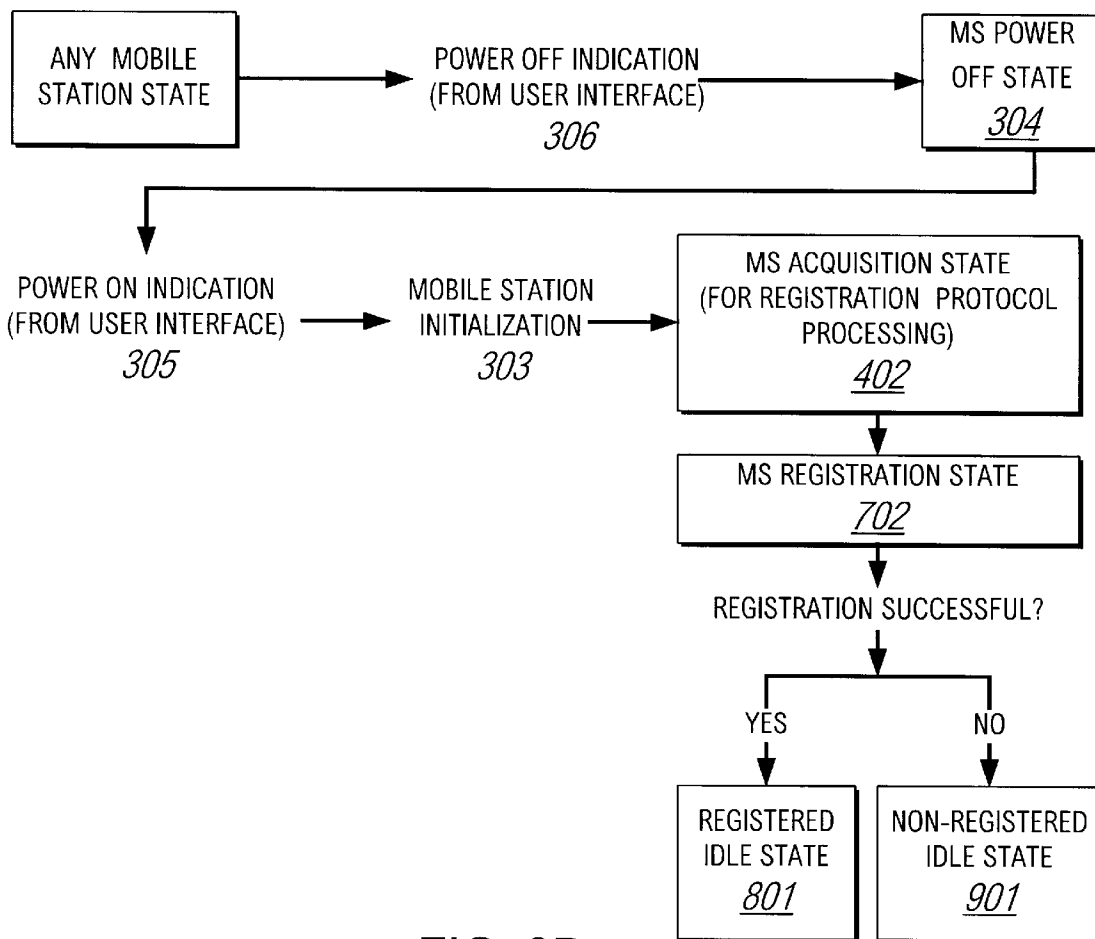


FIG. 3B

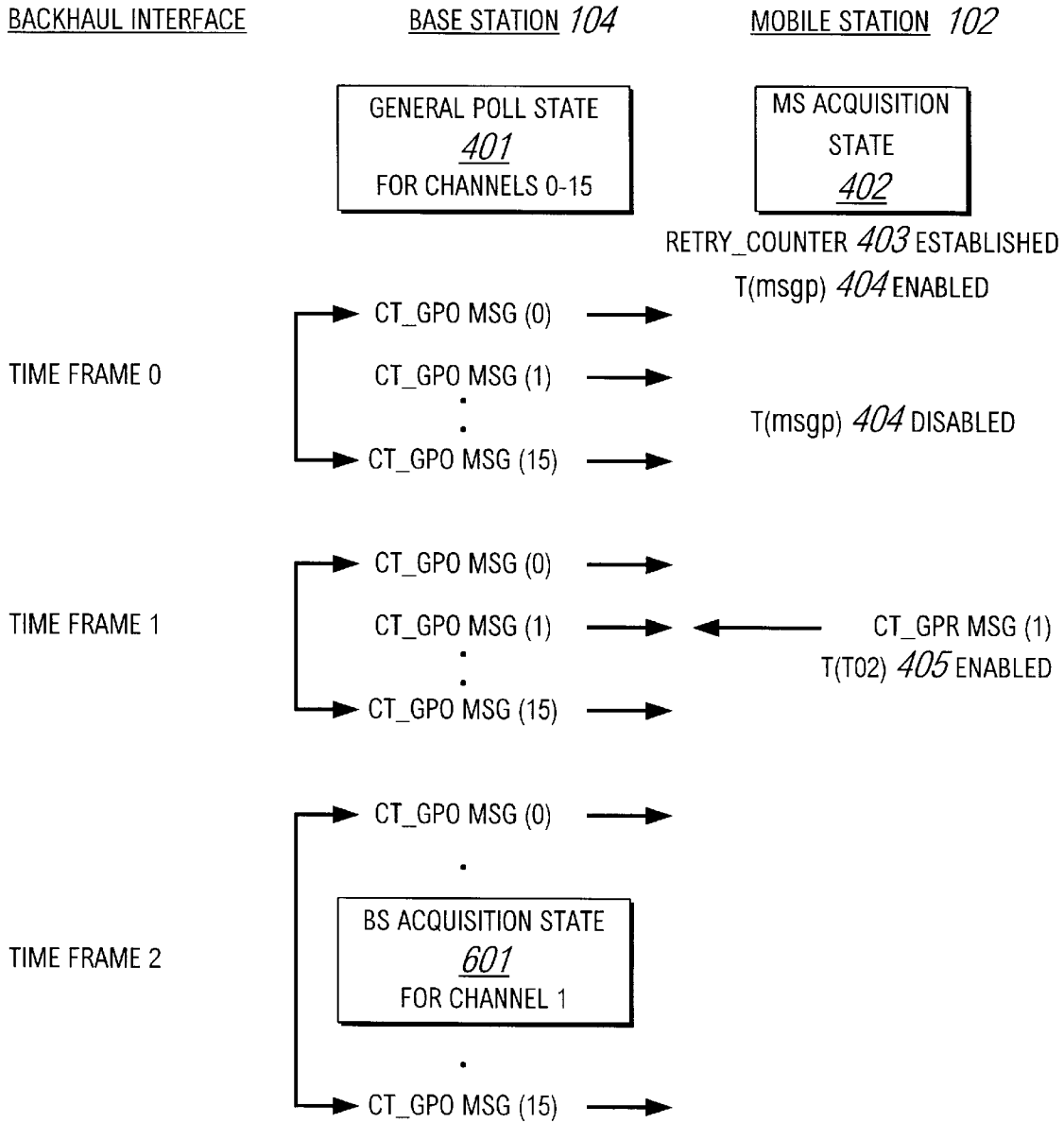


FIG. 4

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