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(54) **SYSTEMS AND METHODS FOR PROVIDING NONVOLATILE MEMORY MANAGEMENT IN WIRELESS PHONES**

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(57) **ABSTRACT**

The present invention is related to memory management, and in particular, to methods and systems for accessing and managing nonvolatile, such as in a wireless phone. A wireless phone memory controller is disclosed that, comprises a first interface circuit configured to be coupled to wireless phone nonvolatile memory, a second interface circuit configured to be coupled to wireless phone volatile memory, a first processor interface configured to be coupled to a first wireless phone processor, wherein the first processor interface is configured to provide the first processor with access to the wireless phone volatile memory, a second processor interface configured to be coupled to a second wireless phone processor, and a controller circuit configured to copy at least a portion of wireless phone nonvolatile memory data to the wireless phone volatile memory.

FIG. 1

Flash Memory   104

Main RAM   105

Control Circuit   103

Memory System   102

External Electronics   106

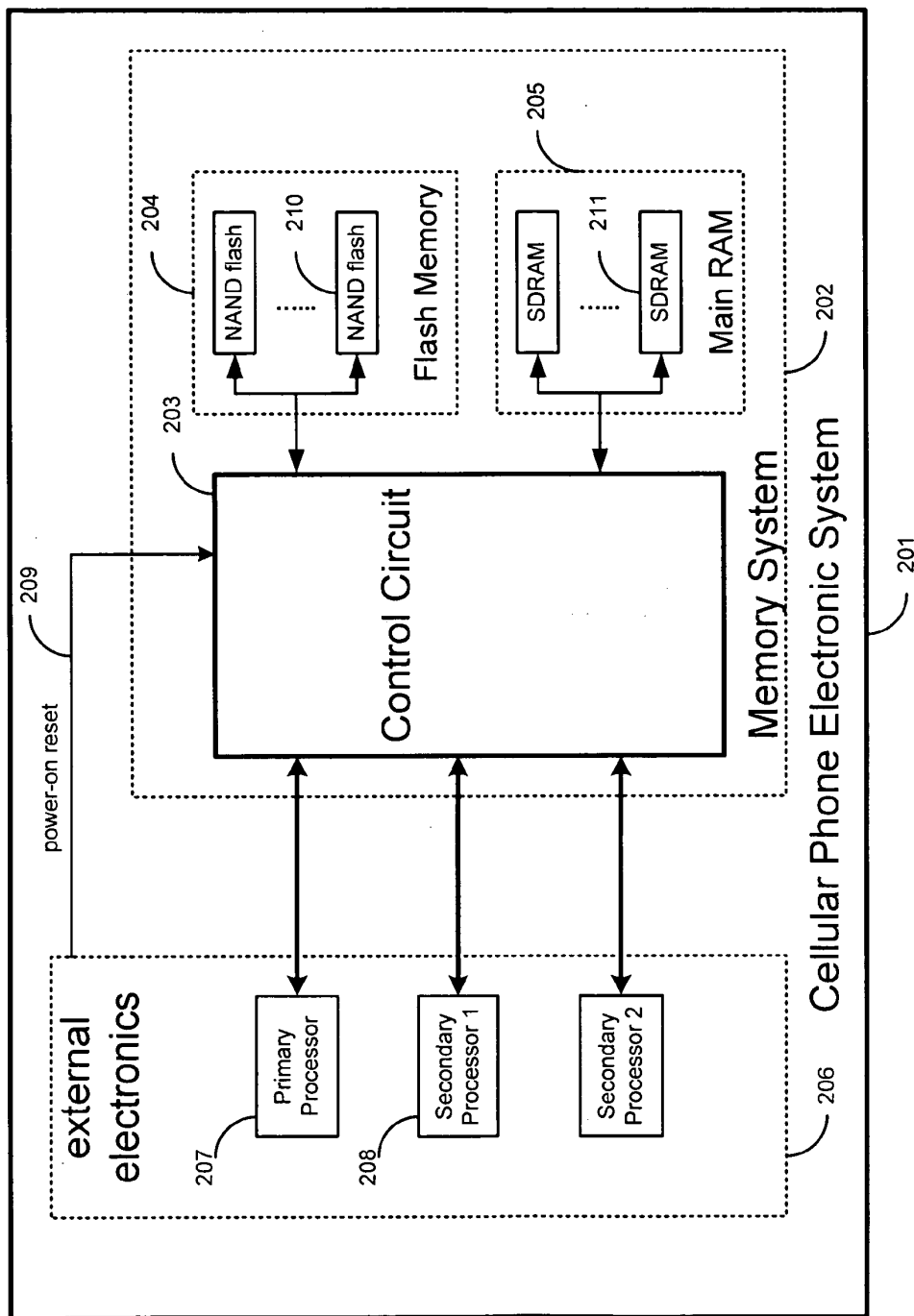Cellular Phone Electronic System   101
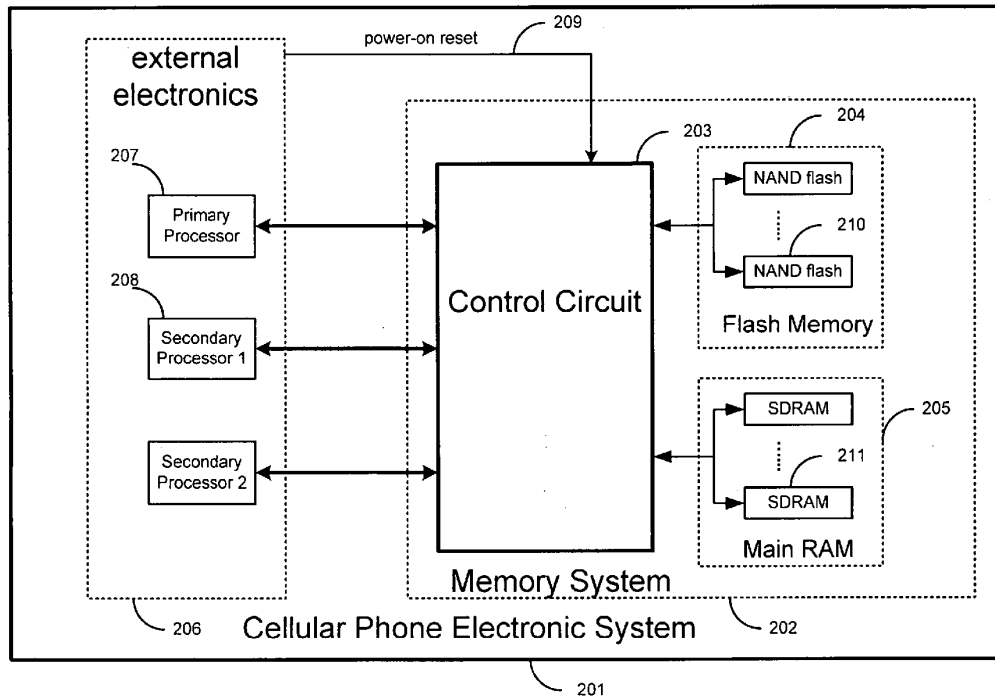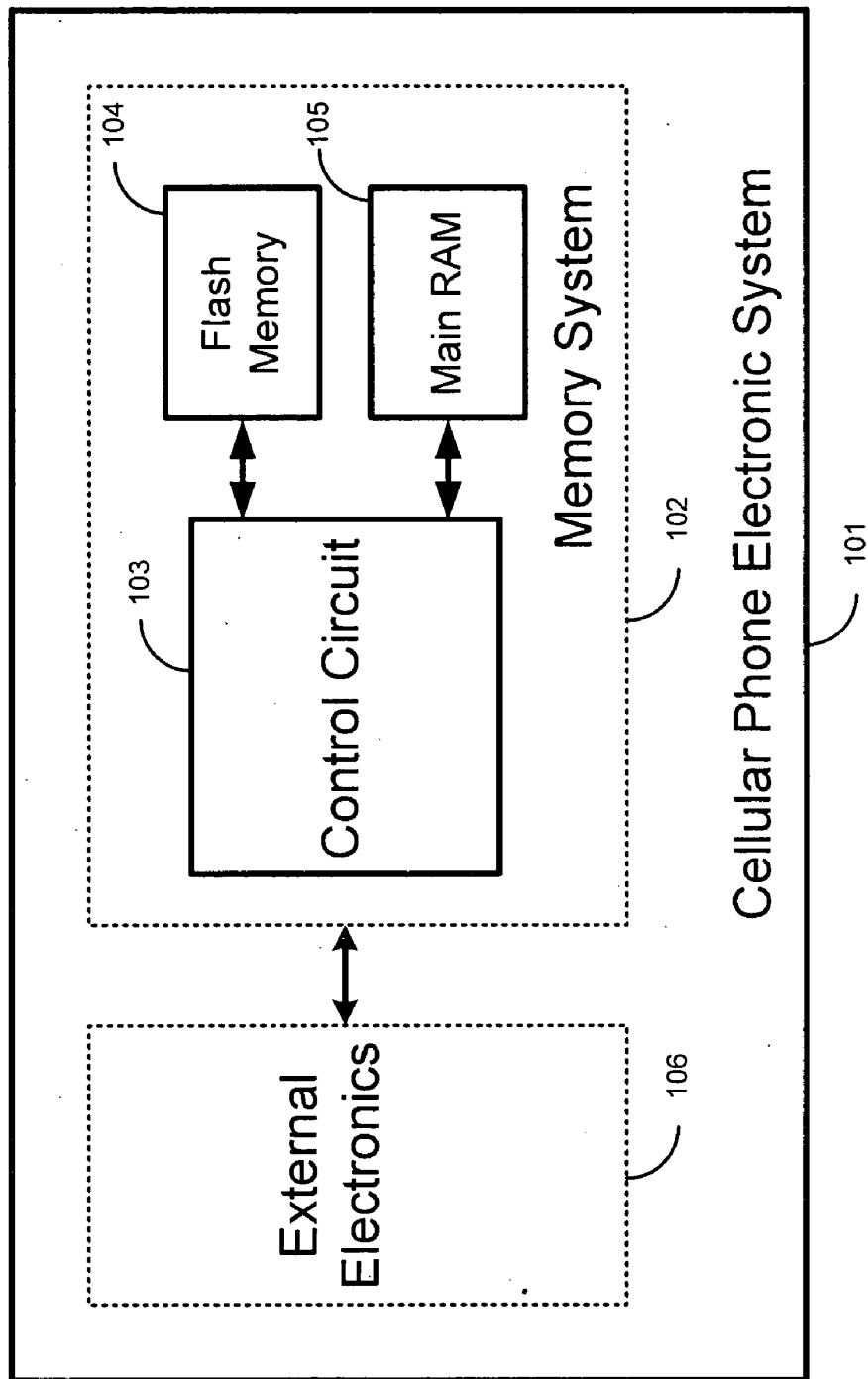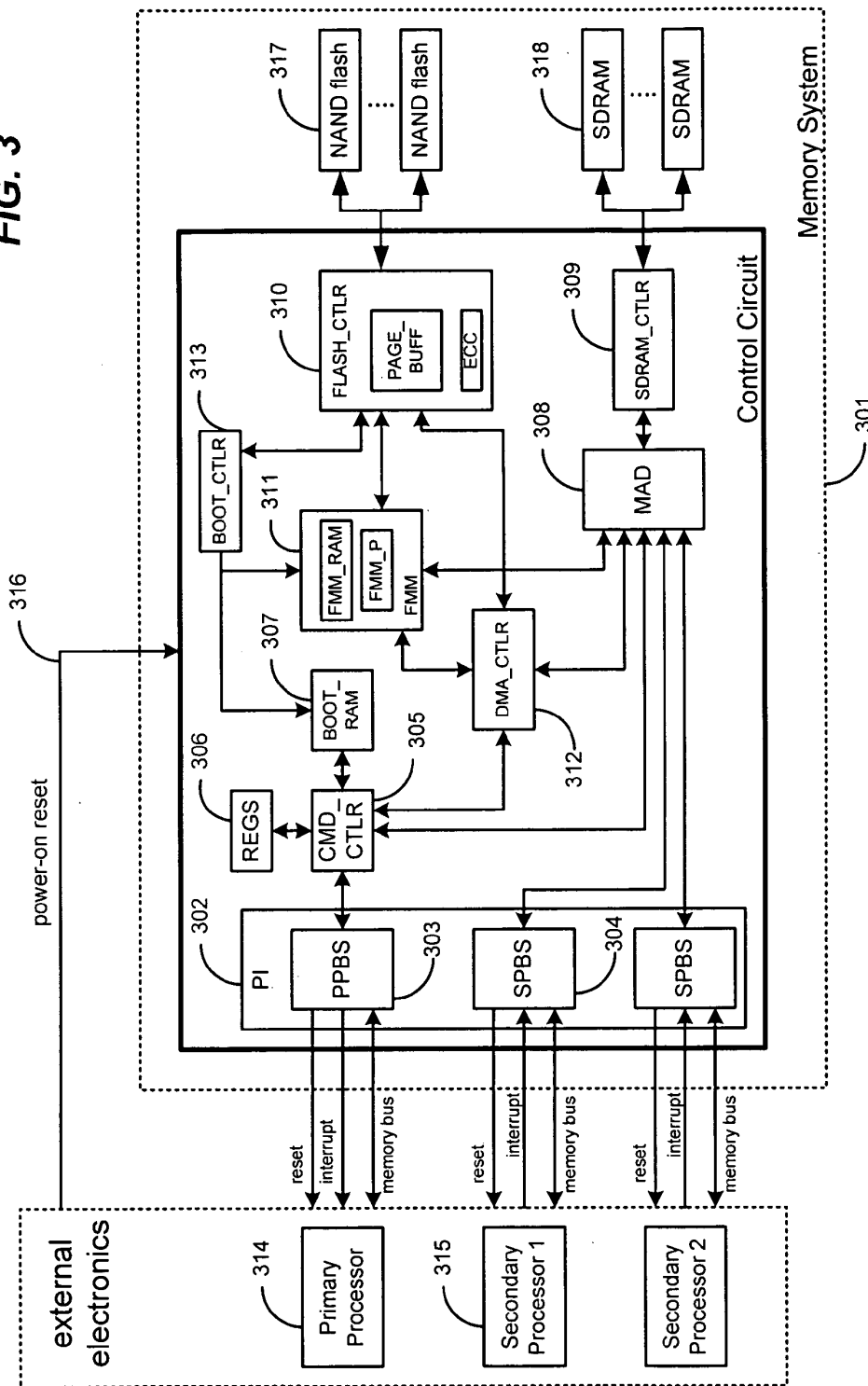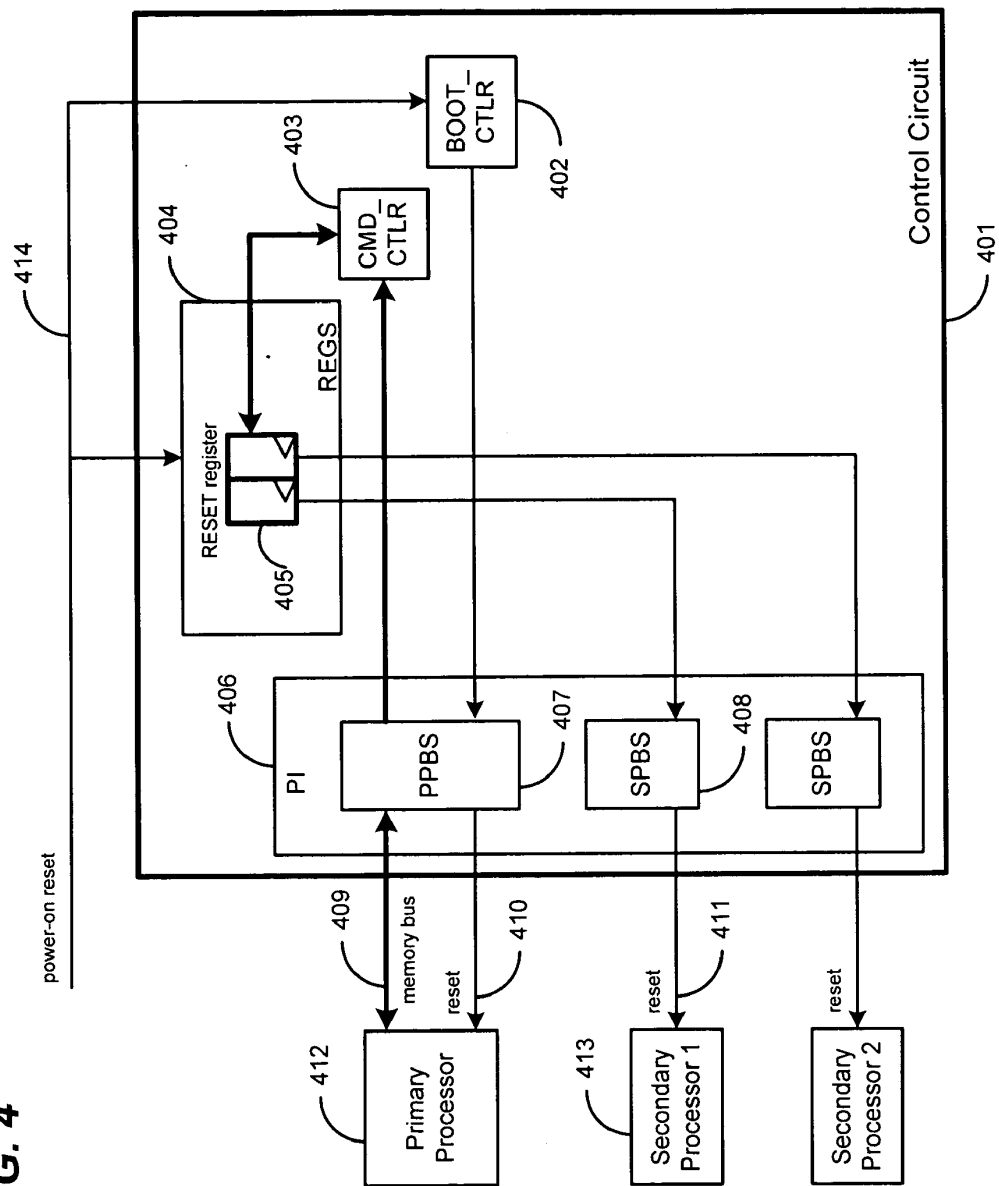
FIG. 2

FIG. 3

FIG. 4

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