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(54) INITIATIVE WEAR LEVELING FOR NON-VOLATILE MEMORY

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(58) Field of Classification Search 711/103, 711/165, 173

See application file for complete search history.

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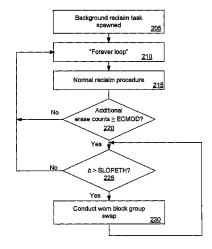
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(57)ABSTRACT

A method and apparatus for initiative wear leveling for nonvolatile memory. An embodiment of a method includes counting erase cycles for each of a set of multiple memory blocks of a non-volatile memory, the counting of erase cycles for each memory block including incrementing a first count for a physical block address of the memory block, and if the memory block is not a spare memory block, incrementing a second count for a logical block address of the memory block. The method also includes determining whether the non-volatile memory has uneven wear of memory blocks based at least in part on the counting of the erase cycles of the plurality of memory blocks.

16 Claims, 9 Drawing Sheets





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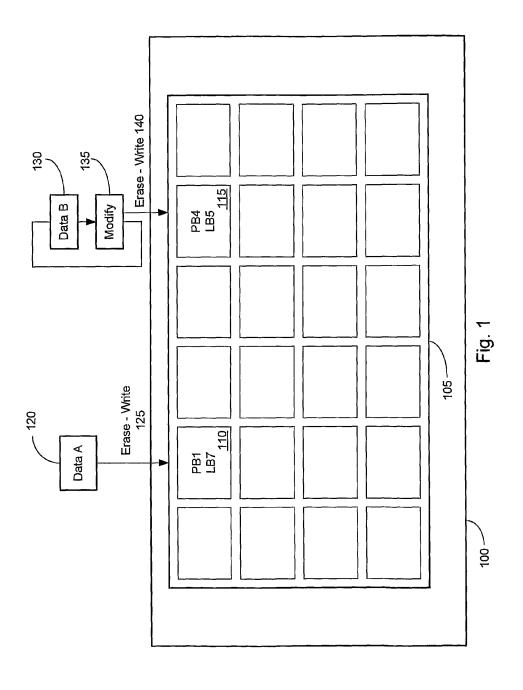
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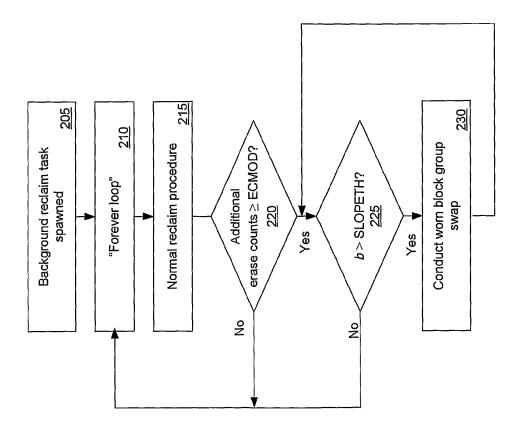


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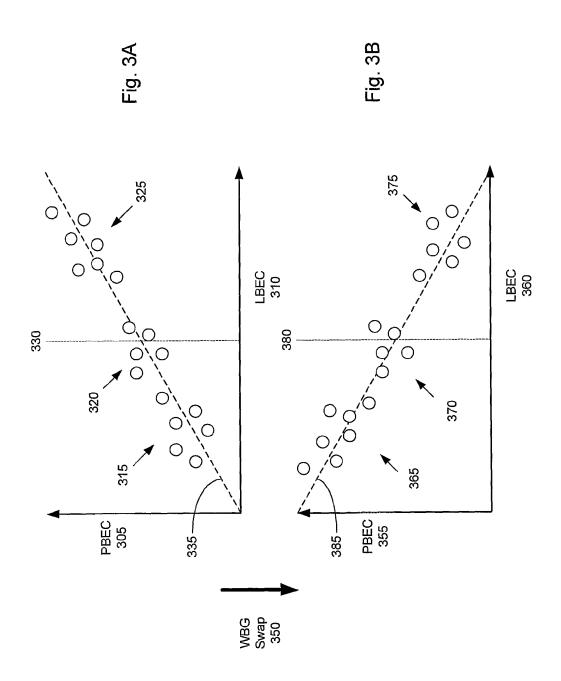




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