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Kolokowsky

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(54) **FLASH DRIVE FAST WEAR LEVELING**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 147 days.

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1, 2005.

(51) **Int. Cl.**
G06F 12/00 (2006.01)

(52) **U.S. Cl.** **711/103; 711/156; 365/218**

(58) **Field of Classification Search** **711/103**
See application file for complete search history.

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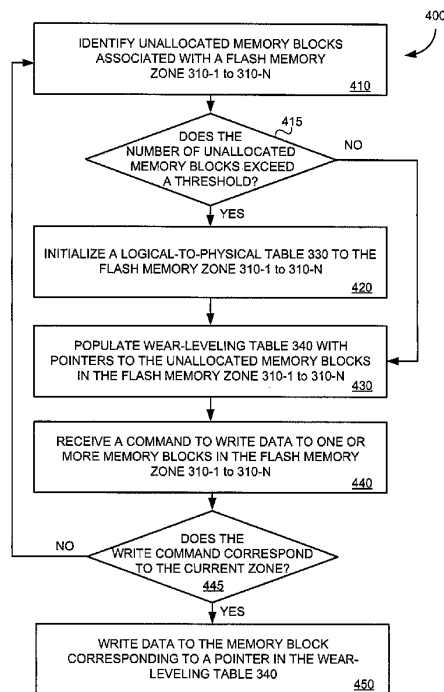
Primary Examiner—Kevin L Ellis

Assistant Examiner—Matthew Bradley

(57) **ABSTRACT**

A system and method comprising a non-volatile memory
including one or more memory blocks to store data, a con-
troller to allocate one or more of the memory blocks to store
data, and a wear-leveling table populated with pointers to
unallocated memory blocks in the non-volatile memory, the
controller to identify one or more pointers in the wear-level-
ing table and to allocate the unallocated memory blocks asso-
ciated with the identified pointers for the storage of data.

10 Claims, 4 Drawing Sheets



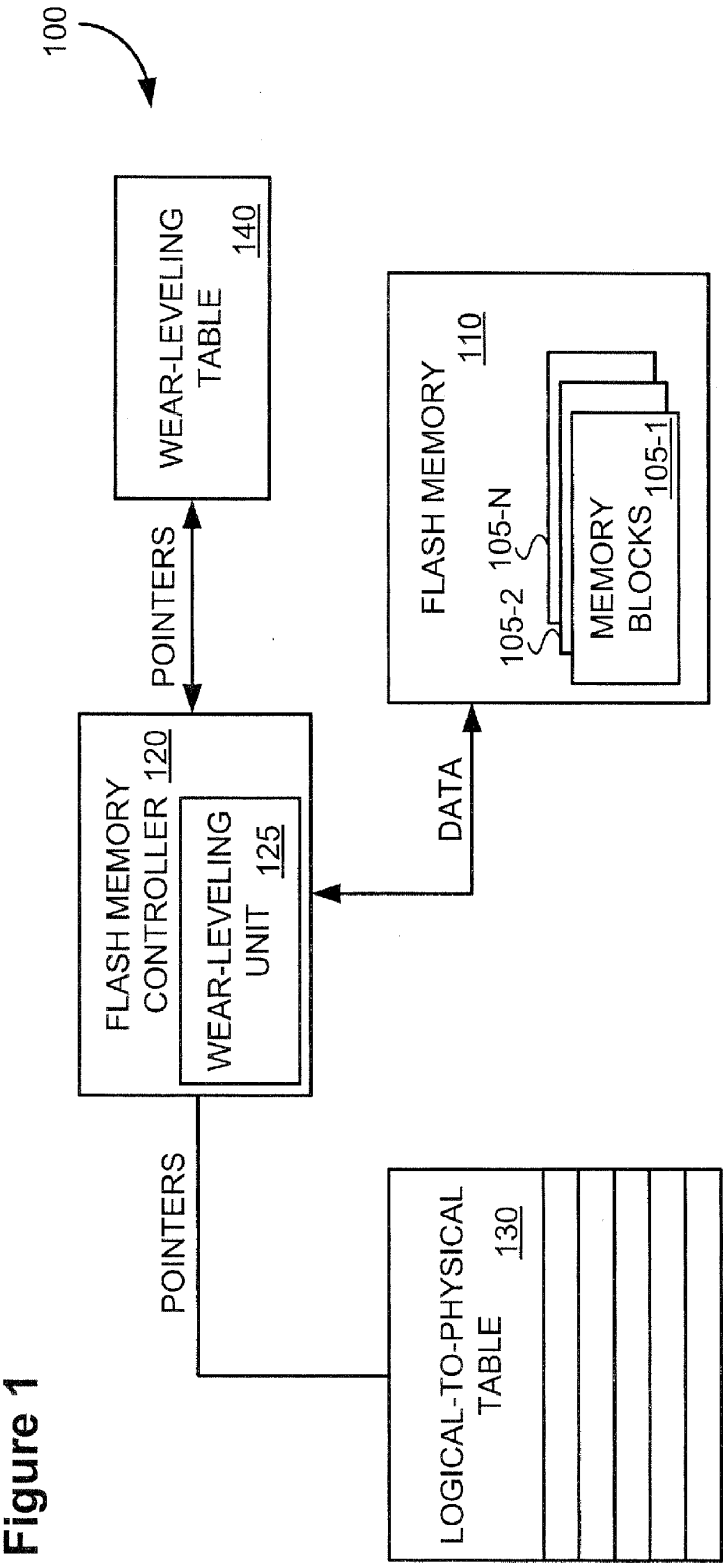
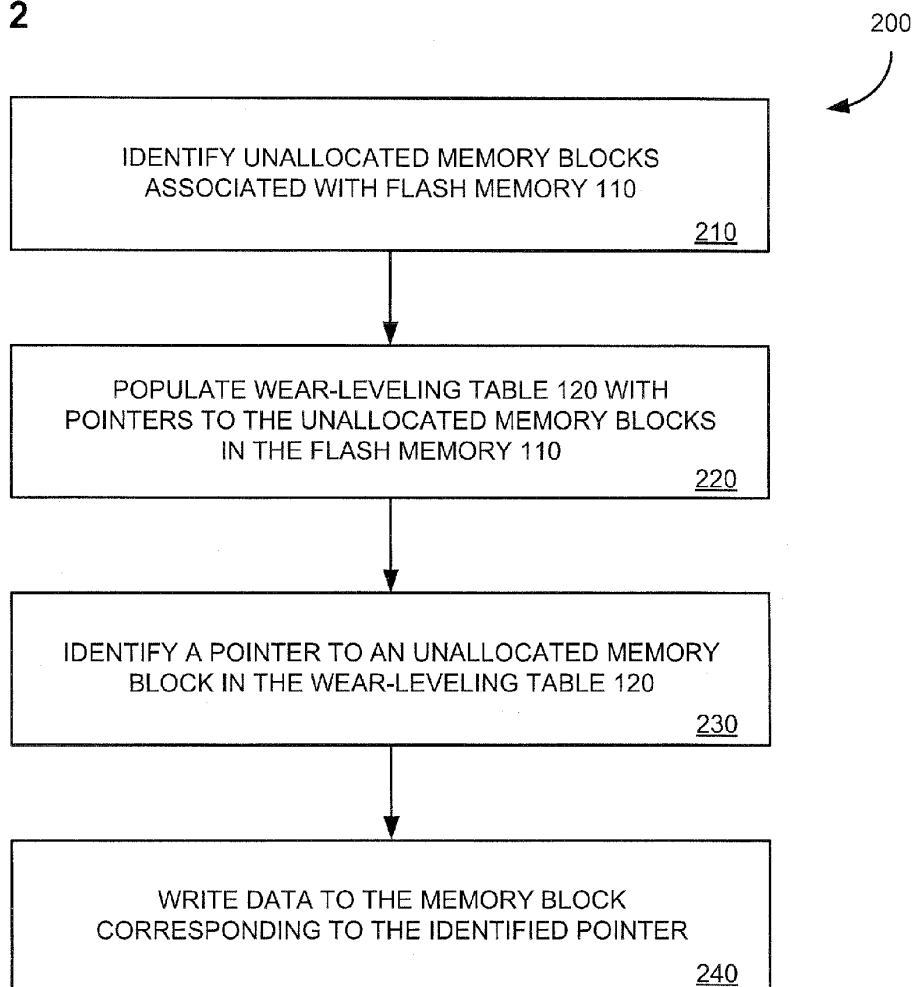


Figure 1

Figure 2



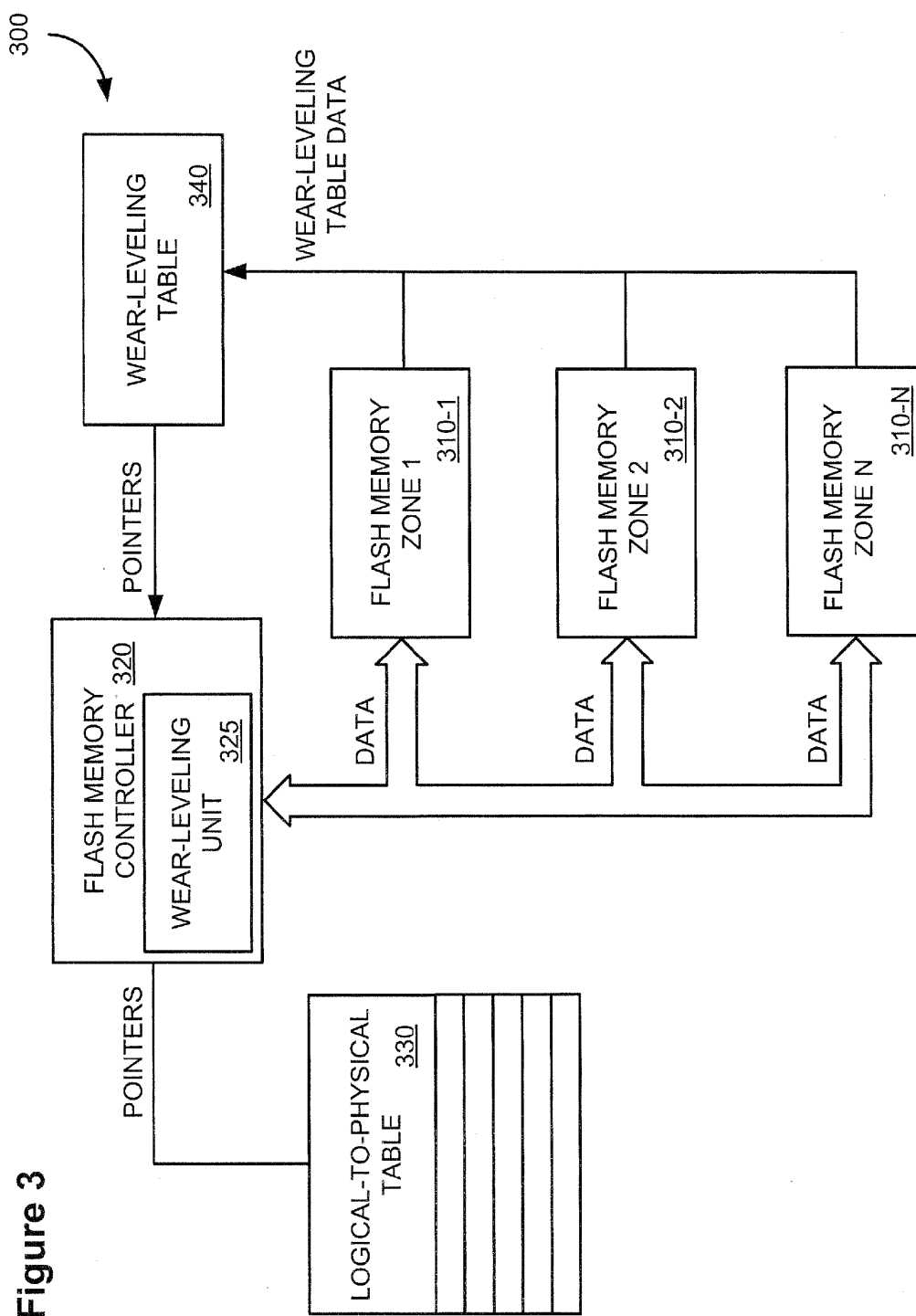
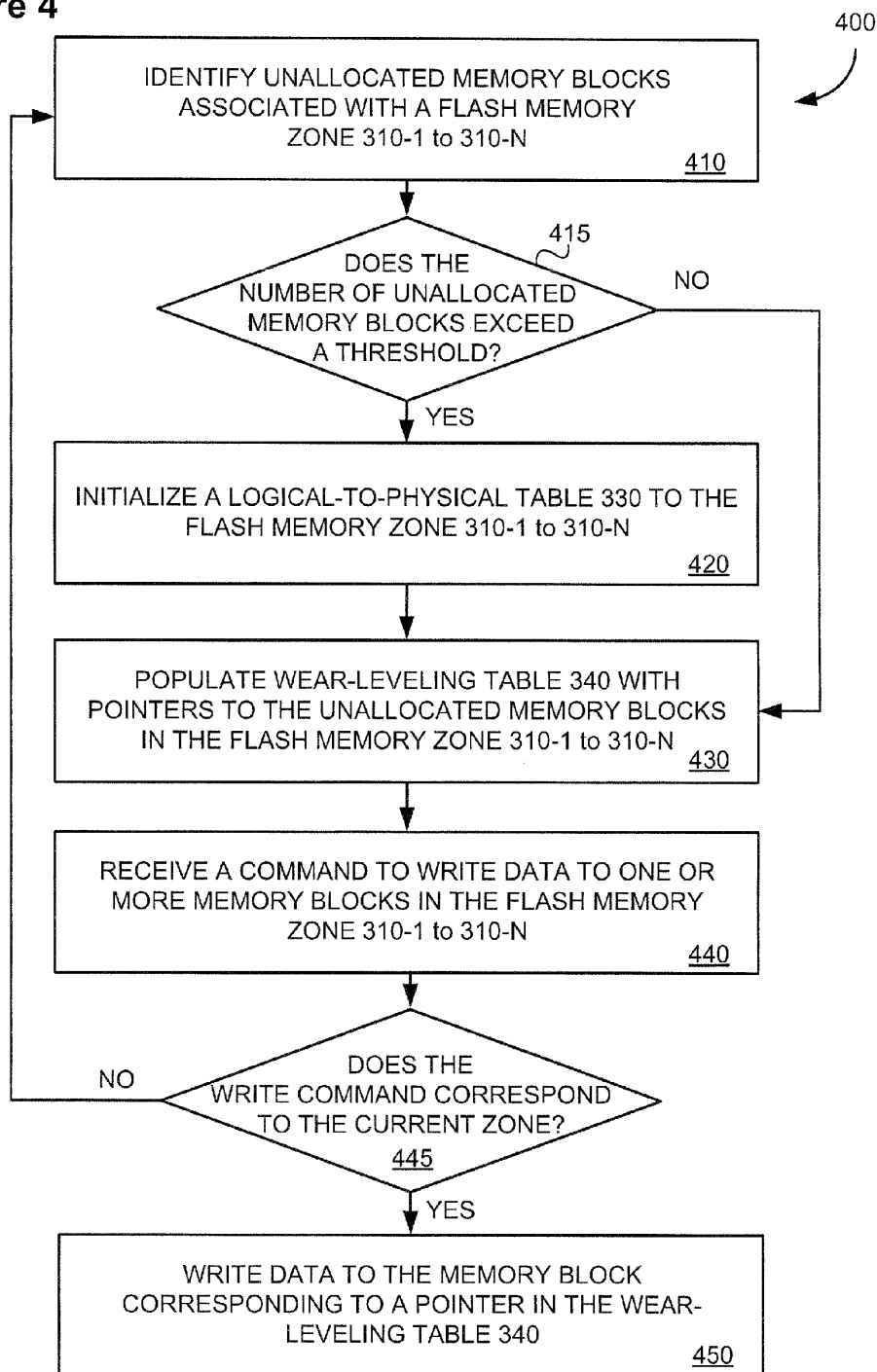


Figure 4



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