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(54) **MEMORY SYSTEM FOR DATA STORAGE AND RETRIEVAL**

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See application file for complete search history.

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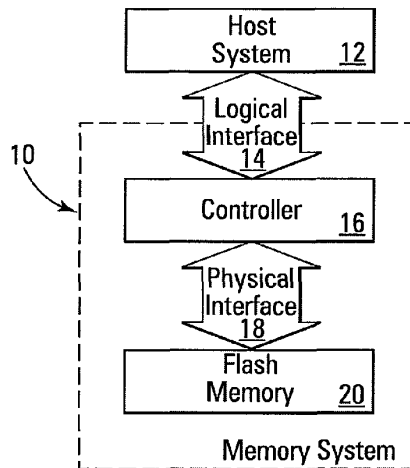
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(57) **ABSTRACT**

According to a first aspect of an embodiment of the invention, there is provided a method of data storage and retrieval for use in a solid state memory system, having a non-volatile memory, wherein data is written to the non-volatile memory in the form of at least one logical sector the method comprising: monitoring the logical sector data which is to be written to the non-volatile memory, detecting the presence of a pattern in the logical sector data, upon detecting a repetitive pattern recording the repetitive pattern of the logical sector in a sector address table in the non-volatile memory without making a record of the logical sector data in the nonvolatile memory.

25 Claims, 5 Drawing Sheets



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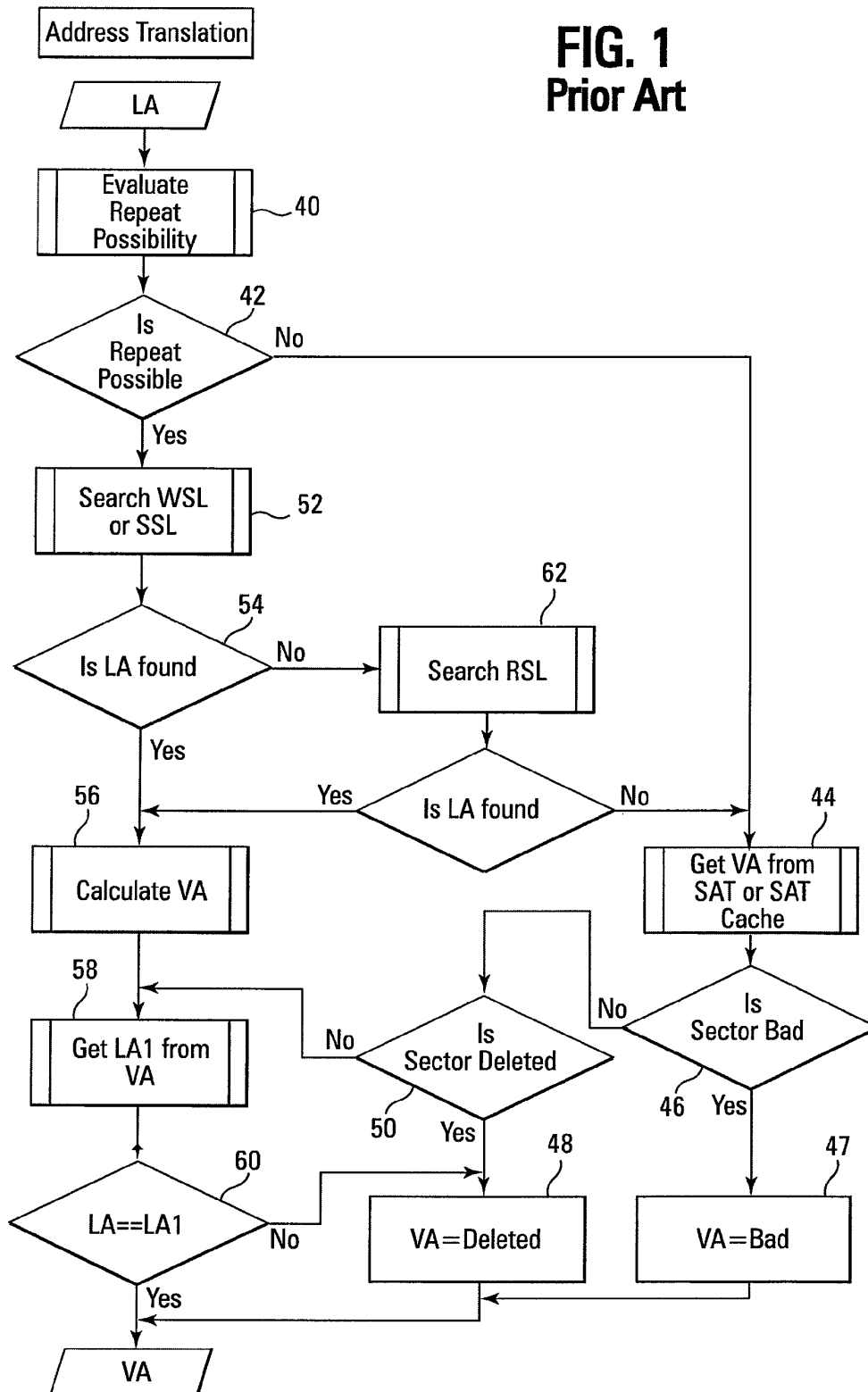
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FIG. 1
Prior Art



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