

ABSTRACT

A storage device includes a nonvolatile memory device, a memory controller, and a buffer memory. The memory controller determines a first memory block of the nonvolatile memory device, which is targeted for a read reclaim operation, and reads target data from a target area of the first memory block. The target data are stored in the buffer memory. The memory controller reads at least a portion of the target data stored in the buffer memory in response to a read request corresponding to at least a portion of the target area.

FIG. 1