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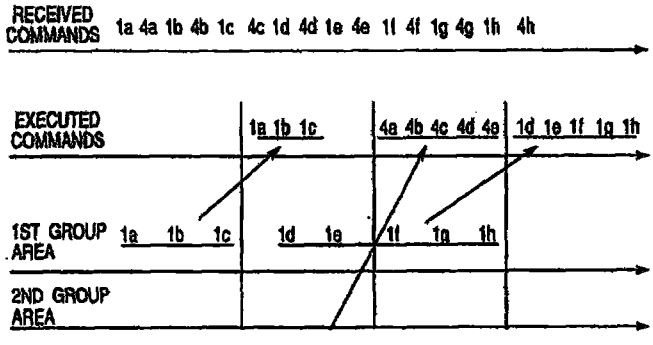
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(54) Title: DATA STORAGE APPARATUS AND ACCESS METHOD THEREOF



(57) Abstract

A data storage apparatus for storing data to a hard disk or other data recording medium improving data read/write efficiency is provided. The data storage apparatus receives read/write commands over a network from a plurality of terminals connected to the network. The apparatus groups receives command (1a, 4a, 1b, 4b,...) according to an area on the data recording medium accessed by each command, stores the received commands to one of predetermined command group areas in a memory according to the group, selects at every predetermined time (T1, T2,...) one of those command areas and then executes at least one of the commands (1a–1c, 4a–4e, 1d–1h,...) stored in the selected command area.