(54) METHOD AND SYSTEM FOR MULTI-DIMENSIONAL RAID

(57) A method for storing data. The method including receiving a request to write data. In response the request, selecting, a RAID grid location in a RAID grid to write the data, writing the data to memory, updating a data structure to indicate that the RAID grid location is filled. The method further includes determining, using the data structure, whether a data grid in the RAID grid is filled, where the RAID grid location is in the data grid and based on a determination that the data grid is filled: calculating parity values for the RAID grid using the data, determining a physical address in persistent storage corresponding to the RAID grid location, writing the data to a physical location in persistent storage corresponding to the physical address, and writing the parity values to the persistent storage.
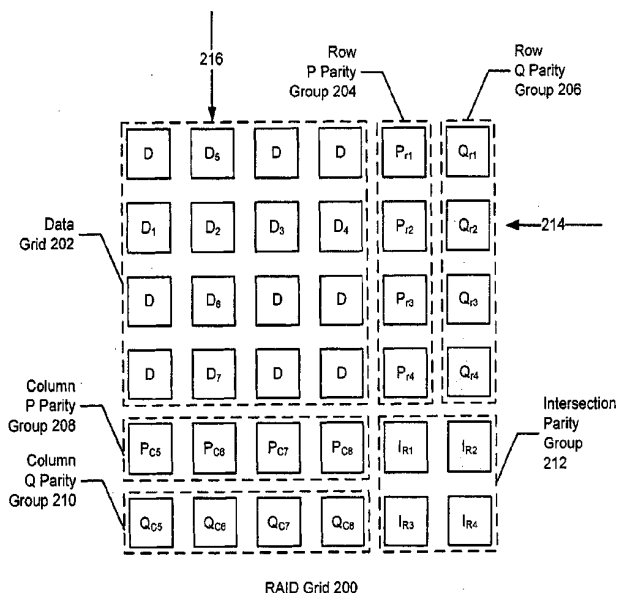
FIG. 2

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